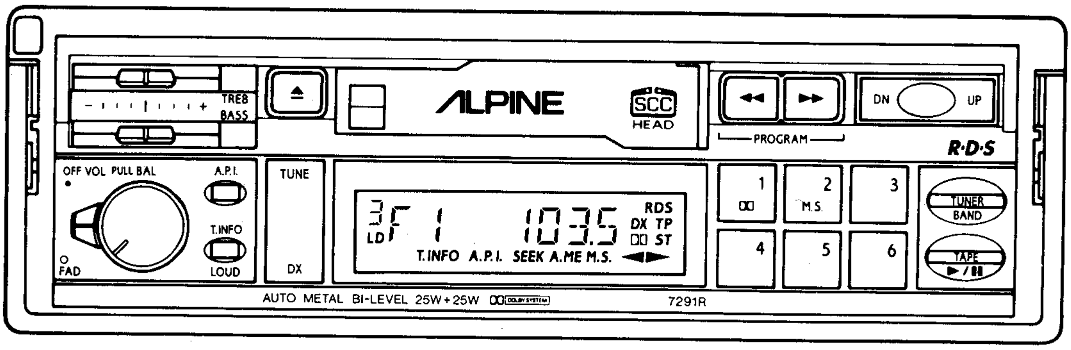
ALPINE

SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

-REVISED-

- Serial Numbers after No. 10919501M
- This service manual Contains only the differences from the Service Manual of Model 7291R (Part No. 68P40493W02).
- For the cassette deck mechanism parts (GT75L150) of this model, refer to the GT Series • Service Manual (Parts No. 68P92539F06).


TREB
BASS
ALPINE
SCC
HEAD
DN
UP
PROGRAM
R·D·S
OFF VOL PULL BAL
A.P.I.
T.INFO
FAD
LOUD
TUNE
DX
3F 1
LD
1035
RDS
DX TP
ST
T.INFO A.P.I. SEEK A.ME M.S.
1
2
M.S.
3
4
5
6
TUNER
BAND
TAPE
►/❚❚
AUTO METAL BI-LEVEL 25W+25W
7291R

7291R

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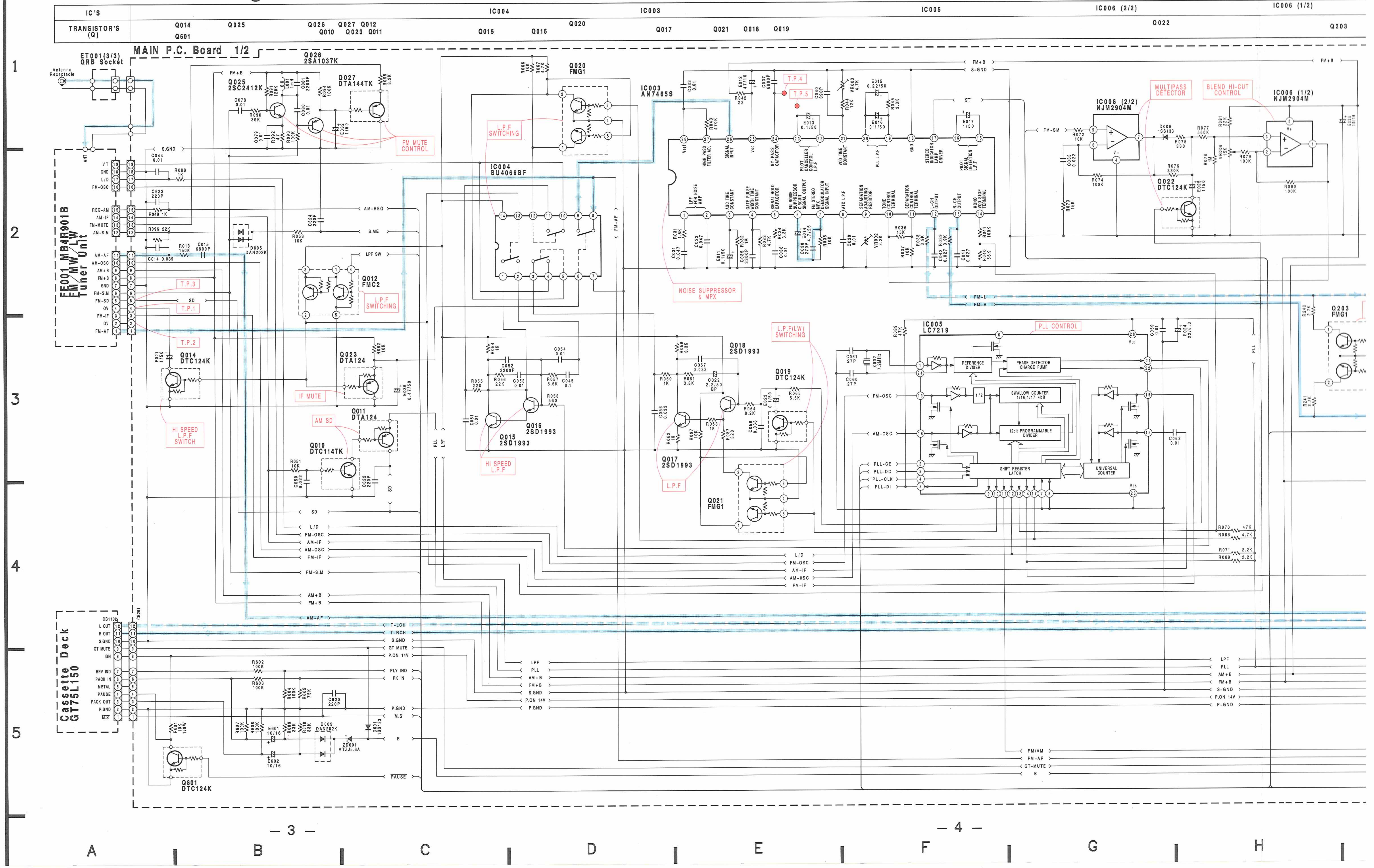
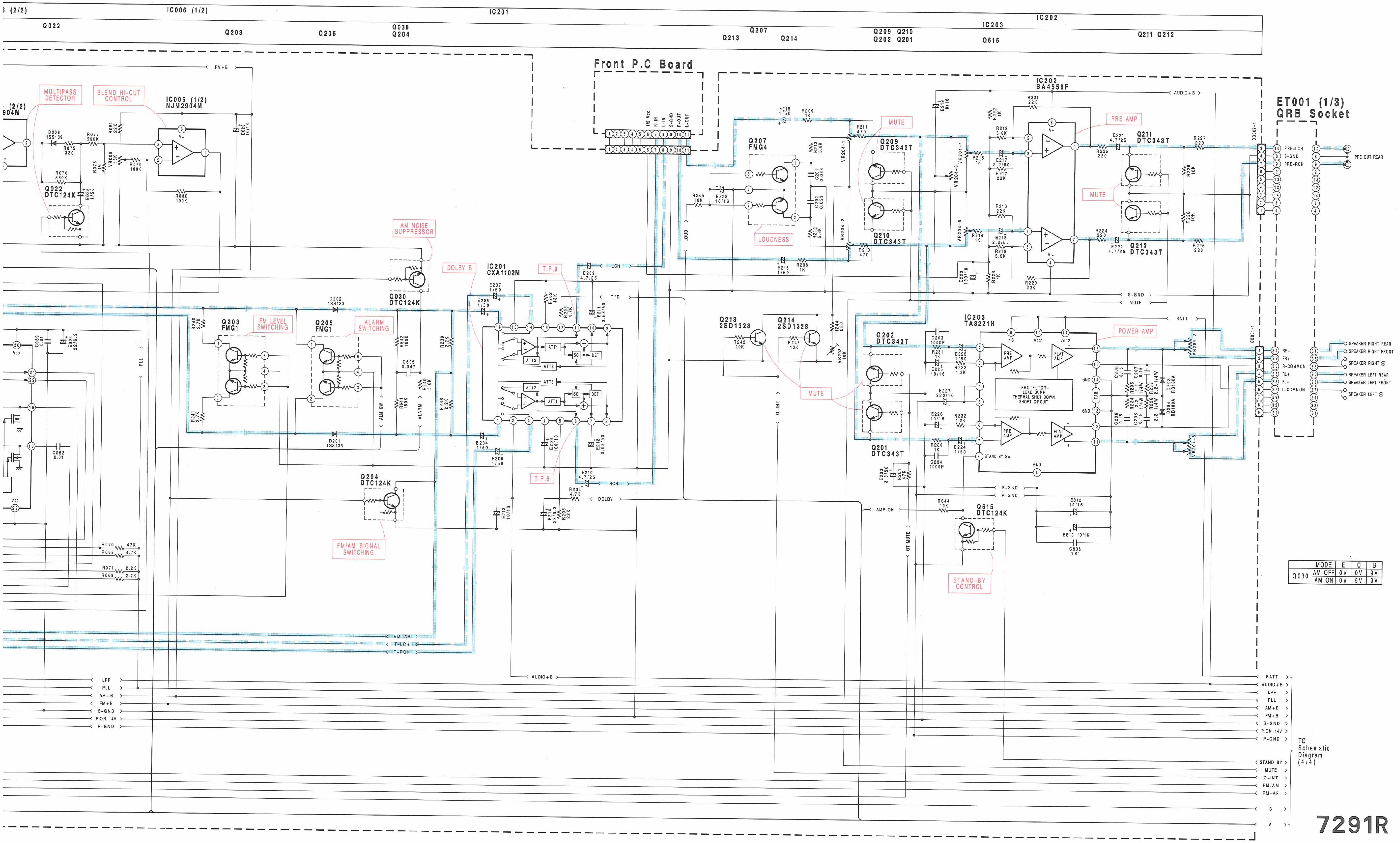
Spare Schematic Diagram Inserted.

Schematic Diagram (3/4)

Serial Numbers after No.10919501M


IC'S
TRANSISTOR'S (Q)
IC004
IC003
IC005
IC006 (2/2)
IC006 (1/2)
Q014
Q601
Q025
Q026 Q027 Q012
Q010 Q023 Q011
Q015
Q016
Q020
Q017
Q021 Q018 Q019
Q022
Q203
MAIN P.C. Board 1/2
ET001(3/3) QRB Socket
Antenna Receptacle
FE001 MB4R901B FM/MW/LW Tuner Unit
Cassette Deck GT75L150
Q026 2SA1037K
Q025 2SC2412K
Q027 DTA144TK
FM MUTE CONTROL
Q020 FMG1
L.P.F SWITCHING
IC004 BU4066BF
IC003 AN7465S
NOISE SUPPRESSOR & MPX
T.P.4
T.P.5
T.P.3
T.P.1
T.P.2
Q012 FMC2
Q014 DTC124K
HI SPEED L.P.F SWITCH
Q023 DTA124
IF MUTE
AM SD
Q011 DTA124
Q010 DTC114TK
Q015 2SD1993
Q016 2SD1993
HI SPEED L.P.F
Q018 2SD1993
L.P.F(LW) SWITCHING
Q019 DTC124K
Q017 2SD1993
L.P.F
Q021 FMG1
IC005 LC7219
PLL CONTROL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16,1/17 4bit
12bit PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
X002 7.2MHz
IC006 (2/2) NJM2904M
MULTIPASS DETECTOR
BLEND HI-CUT CONTROL
IC006 (1/2) NJM2904M
Q022 DTC124K
Q203 FMG1
Q601 DTC124K
D005 DAN202K
D603 DAN202K
ZD601 MTZJ5.6A
D601 1SS133
D006 1SS133
FM+B
S-GND
FM-SM
FM-L
FM-R
AM-REQ
S.ME
LPF SW
SD
L/D
FM-OSC
AM-IF
AM-OSC
FM-IF
FM-S.M
AM+B
AM-AF
FM-AF
T-LCH
T-RCH
S.GND
GT MUTE
P.ON 14V
PLY IND
PK IN
P.GND
M.S
B
PAUSE
LPF
PLL
PLL-CE
PLL-DO
PLL-CLK
PLL-DI
FM/AM
GT-MUTE
CB1102
CB201
1
2
3
4
5
A
B
C
D
E
F
G
H

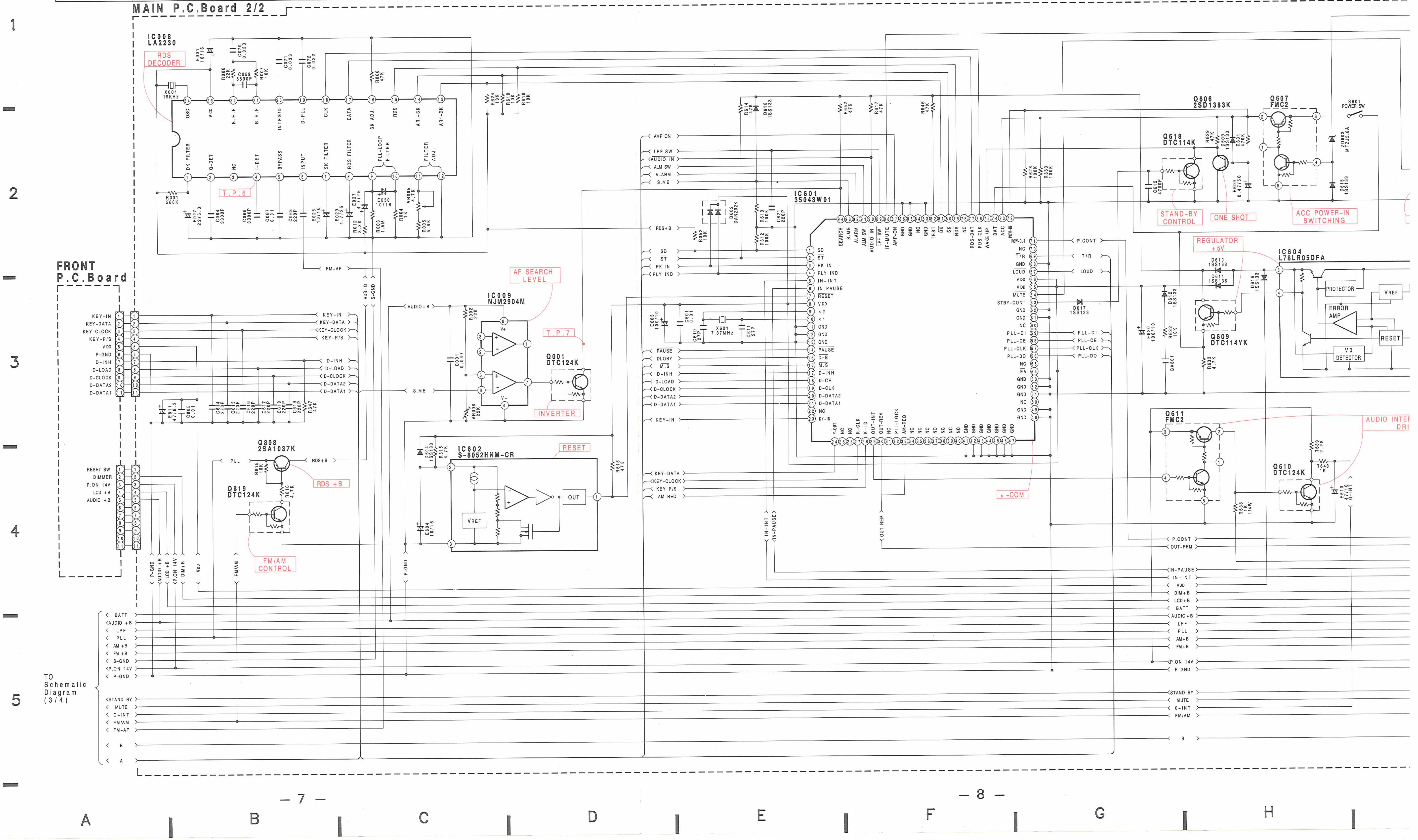

IC006 (1/2)
IC201
IC203
IC202
Q022
Q203
Q205
Q030
Q204
Q213
Q207
Q214
Q209 Q210
Q202 Q201
Q615
Q211 Q212
Front P.C Board
IC202
BA4558F
ET001 (1/3)
QRB Socket
MULTIPASS DETECTOR
BLEND HI-CUT CONTROL
IC006 (1/2)
NJM2904M
D006 1SS133
Q022 DTC124K
AM NOISE SUPPRESSOR
Q030 DTC124K
DOLBY B
IC201 CXA1102M
T.P.9
T.P.8
Q203 FMG1
FM LEVEL SWITCHING
Q205 FMG1
ALARM SWITCHING
D202 1SS133
D201 1SS133
Q204 DTC124K
FM/AM SIGNAL SWITCHING
Q207 FMG4
LOUDNESS
MUTE
Q209 DTC343T
Q210 DTC343T
PRE AMP
Q211 DTC343T
Q212 DTC343T
Q213 2SD1328
Q214 2SD1328
Q202 DTC343T
Q201 DTC343T
IC203 TA8221H
POWER AMP
PRE AMP
FLAT AMP
-PROTECTOR- LOAD DUMP THERMAL SHUT DOWN SHORT CIRCUIT
STAND BY SW
Q615 DTC124K
STAND-BY CONTROL
PRE-LCH
S-GND
PRE-RCH
PRE OUT REAR
RR+
FR+
R-COMMON
RL+
FL+
L-COMMON
SPEAKER RIGHT REAR
SPEAKER RIGHT FRONT
SPEAKER RIGHT ⊖
SPEAKER LEFT REAR
SPEAKER LEFT FRONT
SPEAKER LEFT ⊖
AUDIO+B
FM+B
LCH
RCH
T/R
DOLBY
BATT
S-GND
P-GND
MUTE
AMP ON
GT MUTE
O-INT
LOUD
ALM SW
ALARM
PLL
AM-AF
T-LCH
T-RCH
LPF
PLL
AM+B
FM+B
S-GND
P.ON 14V
P-GND
BATT
AUDIO+B
LPF
PLL
AM+B
FM+B
S-GND
P.ON 14V
P-GND
STAND BY
MUTE
O-INT
FM/AM
FM-AF
B
A
TO Schematic Diagram (4/4)

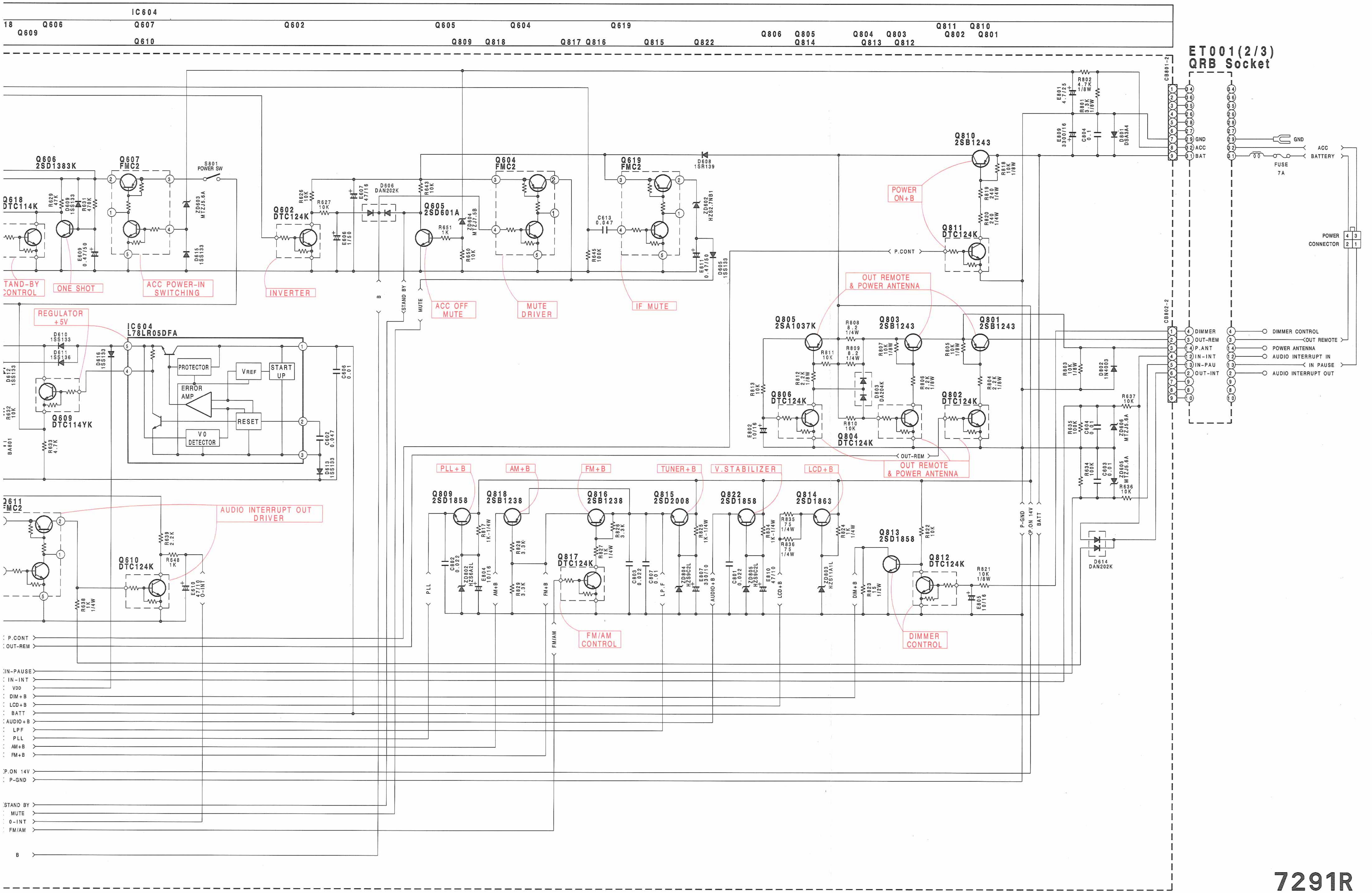
Q030	MODE	E	C	B
	AM OFF	0V	0V	9V
	AM ON	0V	5V	9V

7291R

Schematic Diagram (4/4) Serial Numbers after NO.10919501M

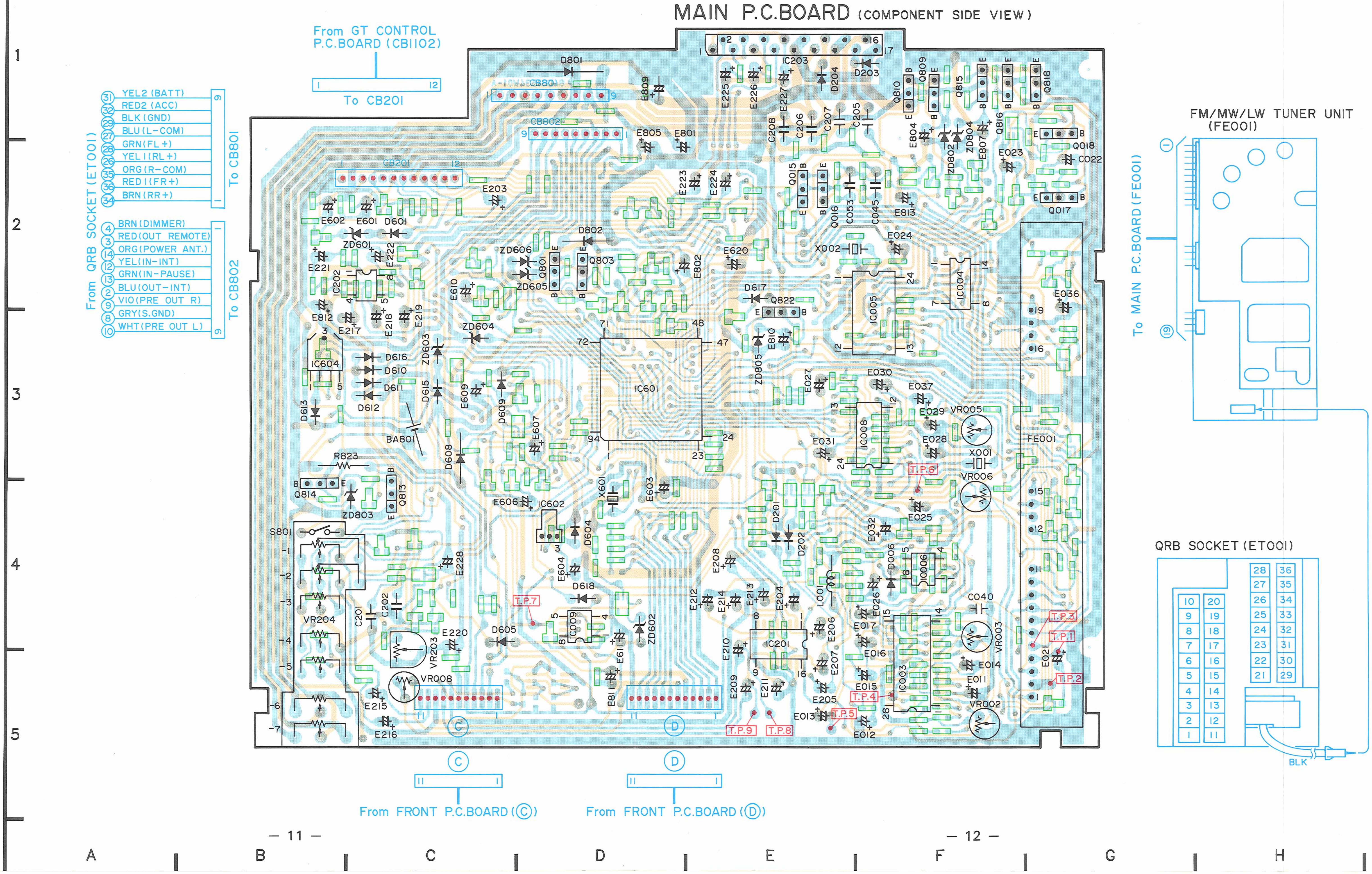
IC'S	IC008	IC602	IC009	IC601	IC604
TRANSISTORS (Q)	Q819 Q808	Q001	Q618 Q611 Q609 Q606	Q607 Q610	


MAIN P.C.Board 2/2
FRONT P.C.Board
IC008 LA2230
RDS DECODER
X001 19KHz
OSC
VCC
B.E.F
INTEG/D
D-PLL
CLK
DATA
SK ADJ.
RDS
ARI-SK
ARI-DK
DK FILTER
Q-DET
NC
I-DET
BYPASS
INPUT
SK FILTER
RDS FILTER
PLL-LOOP FILTER
FILTER ADJ.
T.P.6
FM-AF
IC009 NJM2904M
AF SEARCH LEVEL
T.P.7
Q001 DTC124K
INVERTER
S.ME
AUDIO+B
Q808 2SA1037K
RDS +B
PLL
Q819 DTC124K
FM/AM CONTROL
IC602 S-8052HNM-CR
RESET
VREF
OUT
IC601 35043W01
X601 7.37MHz
µ-COM
AMP ON
LPF.SW
AUDIO IN
ALM SW
ALARM
S.ME
RDS+B
SD
ST
PK IN
PLY IND
PAUSE
DLOBY
M.S
D-INH
D-LOAD
D-CLOCK
D-DATA2
D-DATA1
KEY-IN
KEY-DATA
KEY-CLOCK
KEY P/S
AM-REQ
IN-INT
IN-PAUSE
OUT-REM
P.CONT
T/R
LOUD
PLL-DI
PLL-CE
PLL-CLK
PLL-DO
STBY-CONT
MUTE
Q606 2SD1383K
Q607 FMC2
Q618 DTC114K
S801 POWER SW
STAND-BY CONTROL
ONE SHOT
ACC POWER-IN SWITCHING
REGULATOR +5V
IC604 L78LR05DFA
PROTECTOR
VREF
ERROR AMP
RESET
VO DETECTOR
Q609 DTC114YK
Q611 FMC2
Q610 DTC124K
AUDIO INTER DRI
KEY-IN
KEY-DATA
KEY-CLOCK
KEY-P/S
VDD
P-GND
D-INH
D-LOAD
D-CLOCK
D-DATA2
D-DATA1
RESET SW
DIMMER
P.ON 14V
LCD +B
AUDIO +B
TO Schematic Diagram (3/4)
BATT
AUDIO +B
LPF
PLL
AM +B
FM +B
S-GND
P.ON 14V
P-GND
STAND BY
MUTE
O-INT
FM/AM
FM-AF
B
A
IN-PAUSE
IN-INT
VDD
DIM+B
LCD+B
BATT
AUDIO+B
LPF
PLL
AM+B
FM+B
P.ON 14V
P-GND
STAND BY
MUTE
O-INT
FM/AM
1
2
3
4
5
A
B
C
D
E
F
G
H


IC604
Q606
Q607
Q609
Q610
Q602
Q605
Q604
Q619
Q809
Q818
Q817
Q816
Q815
Q822
Q806
Q805
Q814
Q804
Q803
Q813
Q812
Q811
Q810
Q802
Q801
ET001(2/3)
QRB Socket
CB801-2
CB802-2
Q606
2SD1383K
Q607
FMC2
S801
POWER SW
Q618
DTC114K
Q602
DTC124K
Q605
2SD601A
Q604
FMC2
Q619
FMC2
D608
1SR139
Q810
2SB1243
POWER
ON+B
Q811
DTC124K
P.CONT
STAND-BY
CONTROL
ONE SHOT
ACC POWER-IN
SWITCHING
INVERTER
ACC OFF
MUTE
MUTE
DRIVER
IF MUTE
STAND BY
MUTE
B
OUT REMOTE
& POWER ANTENNA
Q805
2SA1037K
Q803
2SB1243
Q801
2SB1243
Q806
DTC124K
Q804
DTC124K
Q802
DTC124K
OUT-REM
OUT REMOTE
& POWER ANTENNA
REGULATOR
+5V
IC604
L78LR05DFA
PROTECTOR
VREF
START
UP
ERROR
AMP
RESET
VO
DETECTOR
Q609
DTC114YK
Q611
FMC2
AUDIO INTERRUPT OUT
DRIVER
Q610
DTC124K
PLL+B
AM+B
FM+B
TUNER+B
V.STABILIZER
LCD+B
Q809
2SD1858
Q818
2SB1238
Q816
2SB1238
Q815
2SD2008
Q822
2SD1858
Q814
2SD1863
Q817
DTC124K
Q813
2SD1858
Q812
DTC124K
PLL
AM+B
FM+B
LP.F
AUDIO+B
LCD+B
DIM+B
FM/AM
CONTROL
FM/AM
DIMMER
CONTROL
P-GND
P.ON 14V
BATT
D614
DAN202K
GND
ACC
BAT
FUSE
7A
ACC
BATTERY
POWER
CONNECTOR
DIMMER
OUT-REM
P.ANT
IN-INT
IN-PAU
OUT-INT
DIMMER CONTROL
OUT REMOTE
POWER ANTENNA
AUDIO INTERRUPT IN
IN PAUSE
AUDIO INTERRUPT OUT
P.CONT
OUT-REM
IN-PAUSE
IN-INT
VDD
DIM+B
LCD+B
BATT
AUDIO+B
LPF
PLL
AM+B
FM+B
P.ON 14V
P-GND
STAND BY
MUTE
O-INT
FM/AM
B
H
I
J
K
L
M
N
O

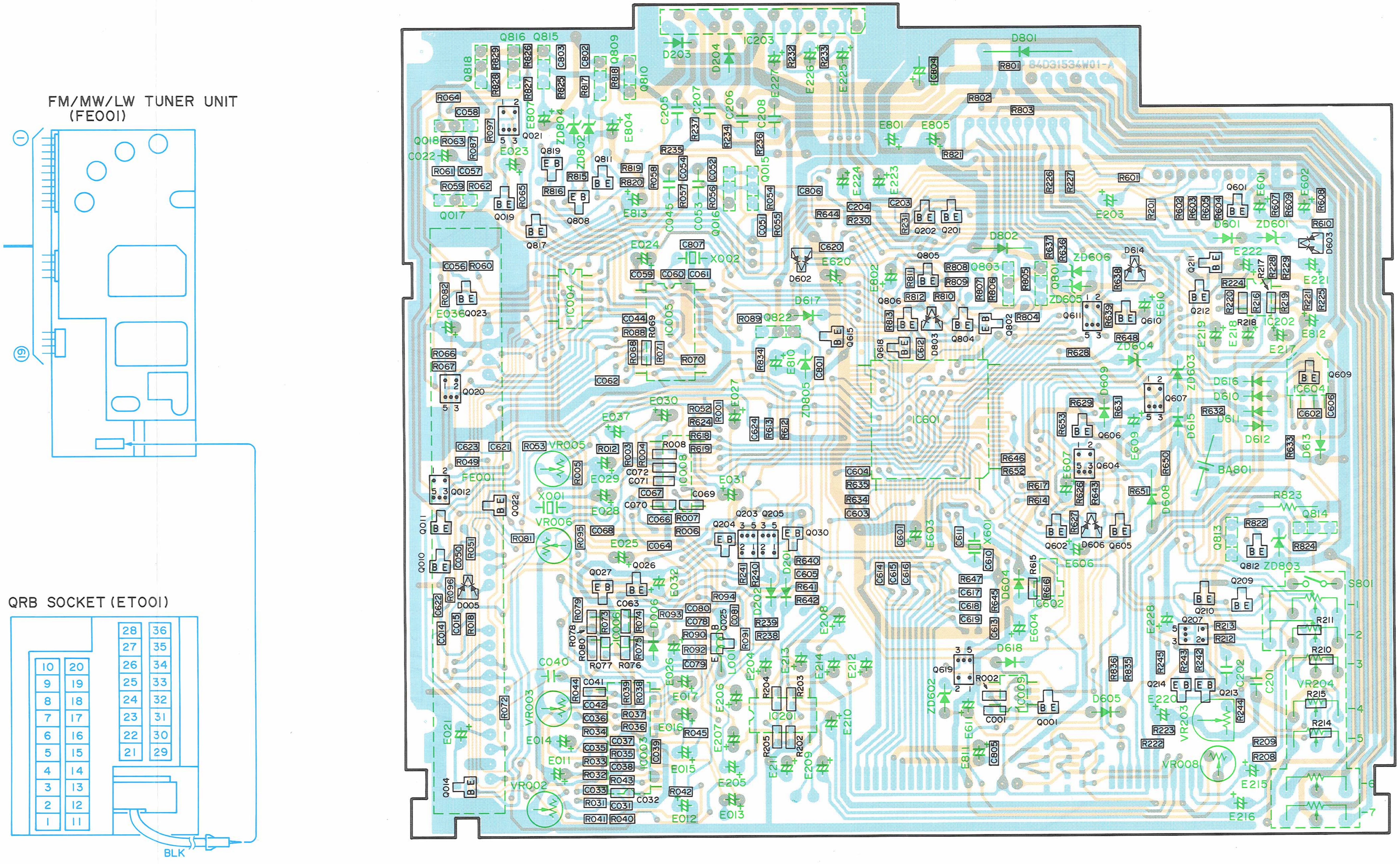
7291R

Parts Layout on P. C. Boards and Wiring Diagram (1/2)


MAIN P.C.BOARD (COMPONENT SIDE VIEW)
From GT CONTROL P.C.BOARD (CB1102)
To CB201
From QRB SOCKET (ET001)
To CB801
To CB802
㉛ YEL2 (BATT)
㉜ RED2 (ACC)
㉙ BLK (GND)
㉘ BLU (L-COM)
㉗ GRN (FL+)
㉖ YEL1 (RL+)
㉟ ORG (R-COM)
㊱ RED1 (FR+)
㉞ BRN (RR+)
④ BRN (DIMMER)
㉔ RED (OUT REMOTE)
③ ORG (POWER ANT.)
⑭ YEL (IN-INT)
⑫ GRN (IN-PAUSE)
⑬ BLU (OUT-INT)
② VIO (PRE OUT R)
⑨ GRY (S.GND)
⑧ WHT (PRE OUT L)
⑩
CB801
CB802
CB201
IC203
IC202
IC601
IC602
IC604
IC005
IC004
IC008
IC006
IC003
IC201
IC009
D801
D802
D203
D204
D601
D605
D608
D609
D610
D611
D612
D613
D615
D616
D617
D618
D604
D201
D202
D006
ZD601
ZD603
ZD604
ZD605
ZD606
ZD602
ZD802
ZD803
ZD804
ZD805
Q801
Q803
Q809
Q810
Q813
Q814
Q815
Q816
Q818
Q822
Q015
Q016
Q017
Q018
X001
X002
X601
VR002
VR003
VR005
VR006
VR008
VR203
VR204
S801
BA801
R823
L001
FE001
T.P.1
T.P.2
T.P.3
T.P.4
T.P.5
T.P.6
T.P.7
T.P.8
T.P.9
C201
C202
C205
C206
C207
C208
C022
C040
C045
C053
From FRONT P.C.BOARD (C)
From FRONT P.C.BOARD (D)
FM/MW/LW TUNER UNIT (FE001)
To MAIN P.C.BOARD (FE001)
QRB SOCKET (ET001)
BLK
1
2
3
4
5
A
B
C
D
E
F
G
H

Orange Pattern: Component Side Pattern.
Blue Pattern: Foil Side Pattern.

MAIN P.C.BOARD (FOIL SIDE VIEW)


FM/MW/LW TUNER UNIT
(FE001)
①
⑲
QRB SOCKET (ET001)
BLK
84D31534W01-A
IC203
IC201
IC202
IC601
IC604
IC004
IC005
IC008
IC006
IC003
IC009
X001
X002
X601
VR002
VR003
VR005
VR006
VR008
VR203
VR204
S801
BA801
FE001
D801
D802
D203
D204
D602
D617
Q816
Q815
Q818
Q809
Q810
Q021
Q018
Q017
Q019
Q819
Q811
Q808
Q817
Q023
Q020
Q012
Q022
Q011
Q010
Q014
Q027
Q026
Q030
Q203
Q205
Q204
Q202
Q201
Q805
Q803
Q806
Q804
Q822
Q615
Q618
Q611
Q610
Q601
Q211
Q212
Q609
Q607
Q606
Q604
Q602
Q605
Q813
Q812
Q814
Q209
Q210
Q207
Q214
Q213
Q619
Q001
R001
R002
C001
C201
C202
E203
E205
E209
E210
E212
E215
E216
E220
E221
E222
E228
E620
E801
E804
E805
E810
E812
ZD601
ZD602
ZD603
ZD604
ZD605
ZD606
ZD801
ZD802
ZD803
ZD804
ZD805
1
2
3
4
5
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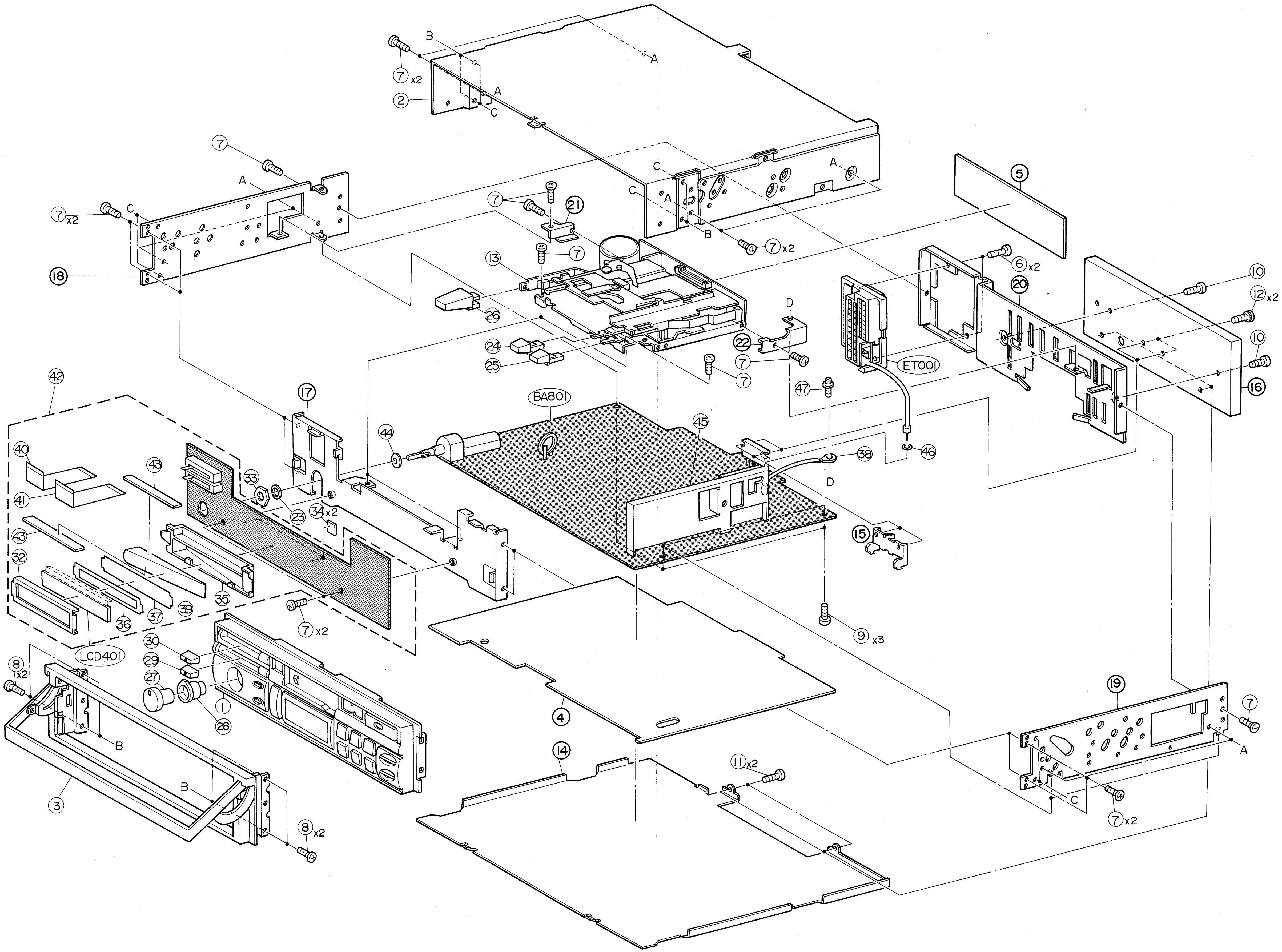
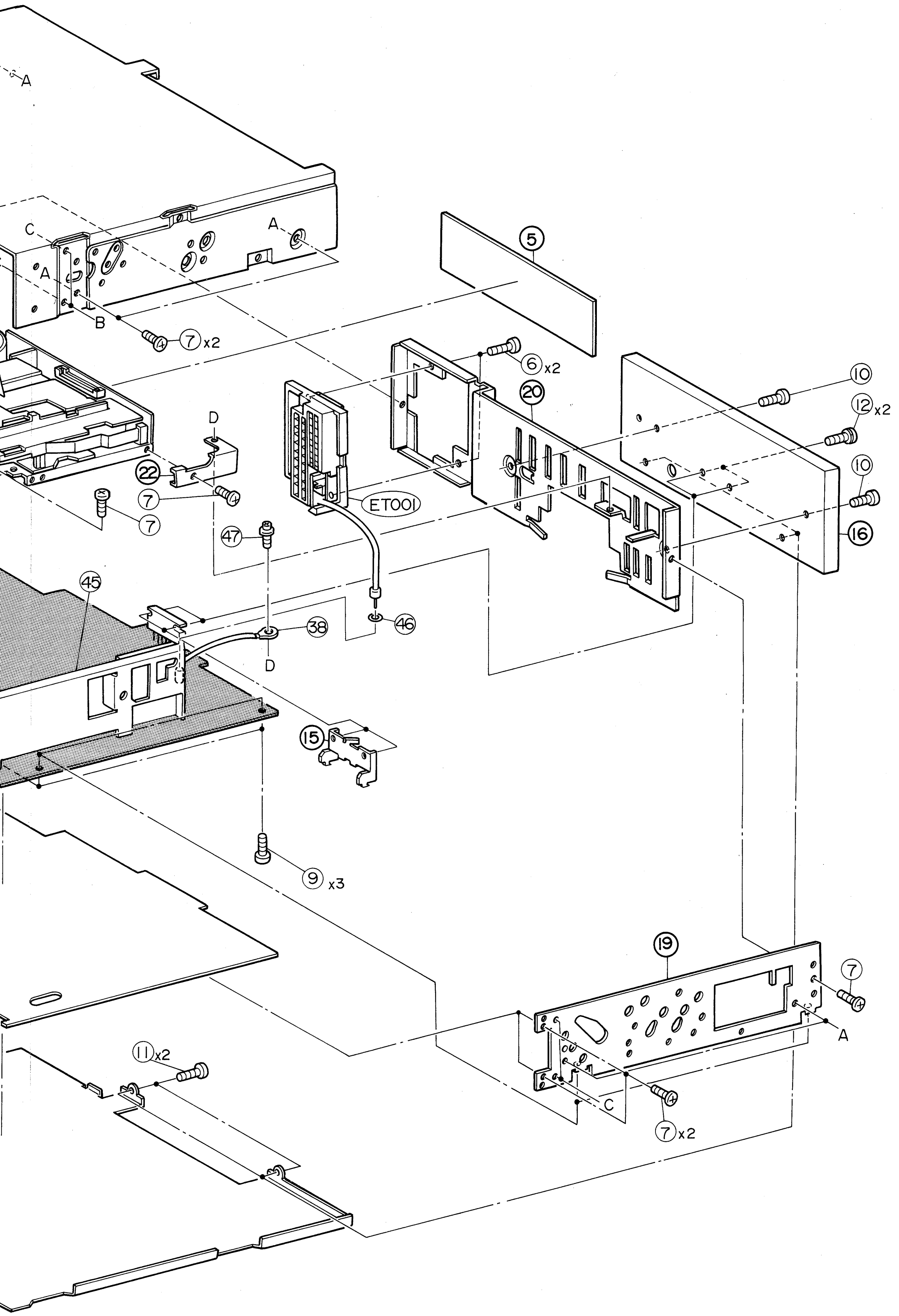
36

Exploded View (Cabinet)


1
2
3
4
5
A
B
C
D
E
F
G
⑦x2
②
B
A
C
A
⑦
A
C
⑦x2
⑱
C
C
A
A
B
⑦x2
⑦
㉑
⑦
⑬
⑤
⑥x2
⑳
⑩
⑫x2
⑩
⑯
D
㉖
㉔
㉕
㉒
⑦
⑦
ET001
㊼
㊷
⑰
BA801
㊺
㊹
㊳
D
㊻
㊵
㊸
㉝
㉓
㉞x2
㊶
⑮
㊸
㉜
㉟
㊱
㊲
㊴
⑦x2
⑨x3
LCD401
㉚
㉙
㉗
①
㉘
⑧x2
B
③
B
⑧x2
④
⑭
⑪x2
⑲
⑦
A
C
⑦x2



Electrical Parts List

Note : The parts is not mentioned, refer to the Service Manual 7291R (68P40493W02).

Symbol No.	Part No.	Description
Main P. C. Board		
IC		
IC601	51T35043W01	35043W01
Transistor		
Q030	48T62967F03	CP., DTC124K
Capacitors		
E023	23S61523F25	ELY., 0.1μF / 50V
E030	23S61523F12	ELY., 10μF / 16V
E037	23S61523F17	ELY., 4.7μF / 25V

Symbol No.	Part No.	Description
Resistors (All resistors are chip 1/10W ± 5% unless otherwise noted.)		
R012	06S64995F65	3.3K ohm
R090	06S64995F91	39K ohm
R210	06S64995F45	470 ohm
R211	06S64995F45	470 ohm
R641	06S64996F08	180K ohm
R642	06S64996F08	180K ohm
Front P. C. Board		
Lamp		
PL401	65T95083F01	6.7V-85mA

Cabinet Assembly Parts List

Note : The parts is not mentioned, refer to the Service Manual 7291R (68P40493W02).

Symbol No.	Index	Part No.	Description
46	3-F	04B41345P11	Washer, Lock (M1.2)
47	3-E	03S71677F06	Screw, Flange (M2.6×6)

Electrical Parts List

Note : The parts is not mentioned, refer to the Service Manual 7291R (68P40493W02).

Symbol No.	Part No.	Description
Main P. C. Board		
IC		
IC601	51T35043W01	35043W01
Transistor		
Q030	48T62967F03	CP., DTC124K
Capacitors		
E023	23S61523F25	ELY., 0.1μF / 50V
E030	23S61523F12	ELY., 10μF / 16V
E037	23S61523F17	ELY., 4.7μF / 25V
Resistors (All resistors are chip 1/10W ± 5% unless otherwise noted.)		
R012	06S64995F65	3.3K ohm
R090	06S64995F91	39K ohm
R210	06S64995F45	470 ohm
R211	06S64995F45	470 ohm
R641	06S64996F08	180K ohm
R642	06S64996F08	180K ohm
Front P. C. Board		
Lamp		
PL401	65T95083F01	6.7V-85mA

Cabinet Assembly Parts List

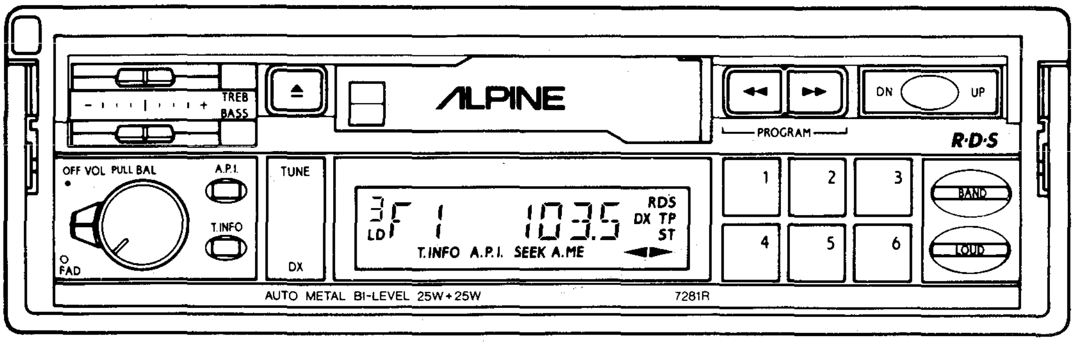
Note : The parts is not mentioned, refer to the Service Manual 7291R (68P40493W02).

Symbol No.	Index	Part No.	Description
46	3-F	04B41345P11	Washer, Lock (M1.2)
47	3-E	03S71677F06	Screw, Flange (M2.6 × 6)

ALPINE SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

- The model described in this manual is developed from Model 7291R.
  For information that is not mentioned in this service manual refer to the Service Manual 7291R (68P40493W02).
- For the cassette cleck mechanism parts (GT75L050) of this model, refer to the GT Series • Service Manual (Parts No. 68P92539F06).


TREB
BASS
ALPINE
PROGRAM
ON
UP
R·D·S
OFF VOL PULL BAL
A.P.I.
T.INFO
FAD
TUNE
DX
3F 1
103.5
RDS
DX TP
ST
LD
T.INFO A.P.I. SEEK A.ME
1
2
3
4
5
6
BAND
LOUD
AUTO METAL BI-LEVEL 25W+25W
7281R

7281R

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Exploded View (Cabinet) .... 57 to 58
Packing Assembly Parts List 59
Semi-Conductor Lead Identifications (Only difference) 60

Spare Schematic Diagram Inserted.

Disassembly Instruction
LCD Display
Operation Check
Tuner Schematic Diagram
Packing Method View

Refer to the
Service Manual 7291R (68P40493W02)

Specifications

FM RADIO

Intermediate Frequency	10.7 ± 0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono at 98.1MHz)	17.2dBf
Limiting Sensitivity (-10dB, at 98.1MHz)	13.2 ± 5dBf
S / N Ratio (Stereo at 98.1MHz)	48dB
Image Rejection (at 106.1MHz)	40dB
IF Refection (at 90.1MHz)	60dB
Distortion (Input 1mV at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0 ± 3dB 10kHz : -12 ± 3dB
Stereo Separation (at 98.1kHz)	25dB
SK Sensitivity (98.1MHz)	25.2dBf
PS Sensitivity (98.1MHz)	36.2dBf
TP Sensitivity (98.1MHz)	36.2dBf

MW RADIO

Intermediate Frequency	450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S / N, at 999kHz)	34dB
S / N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3 ± 4dB 4kHz : -12 ± 6dB

LW RADIO

Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S / N, at 216kHz)	41dB
S / N Ratio (at 216kHz)	44dB
Image Rejection (at 216kHz)	50dB
IF Rejection (at 216kHz)	50dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3 ± 4dB 4kHz : -12 ± 6dB

TAPE PLAYER

Wow & Flutter (JIS WRMS, MTT-111)	0.25%
Tape Speed (MTT-111)	4.76cm / sec. +3 to -1%
S / N Ratio (MTT-212)	50dB
Distortion (MTT-118)	2%
Frequency Response (Ref. 1kHz, MTT-256)	63Hz : -3dB 10kHz : -3dB
Separation (MTT-141)	30dB
Crosstalk (MTT-121)	45dB
FF & REW Time (C-60)	100sec.

GENERAL

Power Supply	DC14.4V
Power Output / Impedance	13W / ch / 4ohm
Output Voltage / Impedance	1V / 10kohm
Semiconductors	18 IC's, 70 Transistors, 29 Diodes, 11 Zener Diodes
Dimensions (W x H x D)	Chassis : 178 x 50 x 160 mm Nose : 178 x 50 x 20.78 mm
Weight	1.7kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Features

FULL FRONT DIN™

QUICK RELEASE BRACKET (Q.R.B.)

Alpine's exclusive Q.R.B. design allows for easy removal of the 7281R, while still maintaining menory. The 7281R may then be carried with the owner for theft prevention.

IGNITION "KEY-OFF" PAUSE

The tape disengages from the tape head, capstan, and pinch roller when the ignition is turned off, but it remains inside the cassette compartment.

AUTO METAL

When a metal cassette tape is inserted, the tape mechanism automatically adjusts to metal tape equalization.

T.INFO (TRAFFIC INFORMATION)

While T.INFO function turns on, a traffic information service automatically can be received when a station transmits.

A.P.I. (AUTO PROGRAM IDENTIFICATION)

While A.P.I. function turns on in FM mode, a best receptive RDS station which has same program as the station you are receiving automatically can be received.

A. ME (AUTO MEMORY)

In the Auto Memory mode, the 6 strongest MW, LW or FM stations will automatically be stored in preset memory.

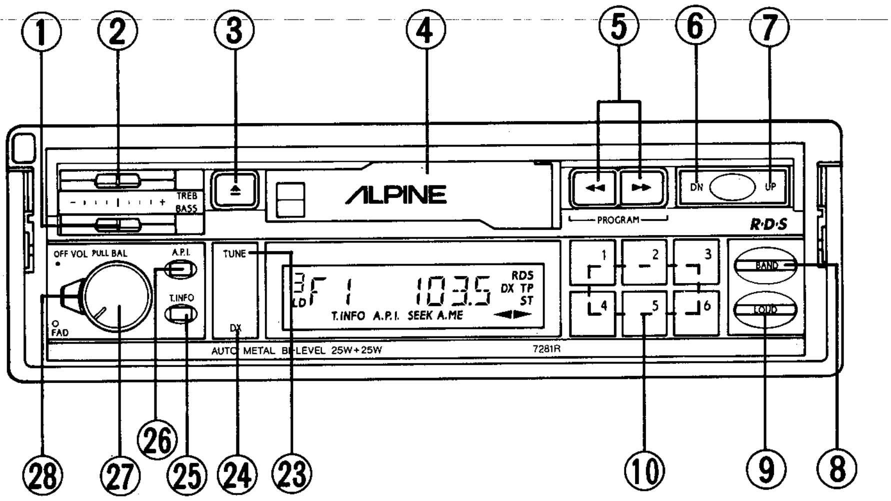
BI-LEVEL CAPABILITY

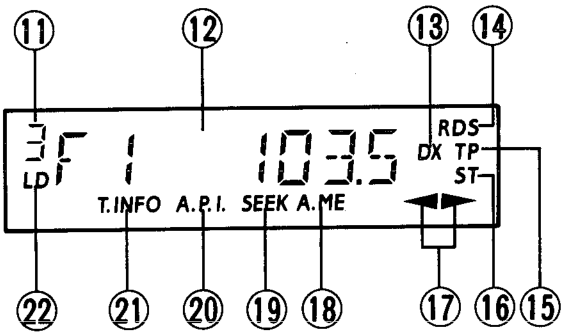
A feature that gives you a choice of regular speaker level outputs as well as a low level outputs compatible with Alpine equalizers and amplifiers for future expansion of your car audio system.

LITETOUCH™ 24-STATION PRESETS

6-FM1; 6-FM2; 6-MW, 6-LW

Controls and Indicators


①
②
③
④
⑤
⑥
⑦
TREB
BASS
ALPINE
DN
UP
PROGRAM
R·D·S
OFF VOL PULL BAL
A.P.I.
T.INFO
FAD
TUNE
DX
3F 1 103.5
LD
RDS
DX TP
ST
T.INFO A.P.I. SEEK A.ME
1
2
3
4
5
6
BAND
LOUD
AUTO METAL BI-LEVEL 25W+25W
7281R
㉖
㉘
㉗
㉕
㉔
㉓
⑩
⑨
⑧


⑪
⑫
⑬
⑭
3F 1 103.5
LD
RDS
DX TP
ST
T.INFO A.P.I. SEEK A.ME
㉒
㉑
⑳
⑲
⑱
⑰
⑯
⑮

① **BASS Control**
② **TREBle Control**
③ **Eject Button**
④ **Cassette Loading Slot**
⑤ **PROGRAM/FF & REW Buttons**

⑥ **Tuning DowN Switch**
⑦ **Tuning UP Switch**
⑧ **BAND Select Button**
⑨ **LOUDness Button**
⑩ **Station Preset Buttons**

⑪ **Preset Address Indicators**
⑫ **Digital Display**
⑬ **DX (Distance) Indicator**
⑭ **RDS Indicator**
⑮ **TP Indicator**

⑯ **STereo Indicator**
⑰ **Tape Direction Indicators**
⑱ **Auto MEmory Indicator**
⑲ **SEEK Indicator**
⑳ **A.P.I. Indicator**

㉑ **T. INFO Indicator**
㉒ **LouDness Indicator**
㉓ **TUNE Switch**
㉔ **DX (Local/Distance) Switch**
㉕ **Traffic INFOrmation Button**

㉖ **Auto Program Identification Button**
㉗ **Power Switch/VOLunme Control/BALance Control (PULL)**
㉘ **FADer Control**

Connections

① **Antenna Receptacle**

② **Power Antenna Lead (Blue)**
When loaded with a power antenna, connect to the + B terminal of the power antenna.

③ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

④ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehi-cle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

⑤ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

⑥ **Ground Lead**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑦ **Fuse Holder (7A)**

⑧ **Right Front Speaker Output Lead (Grey)**

⑨ **Right Speaker Output Lead (Common) (Grey/Black)**

⑩ **Right Rear Speaker Output Lead (Violet)**

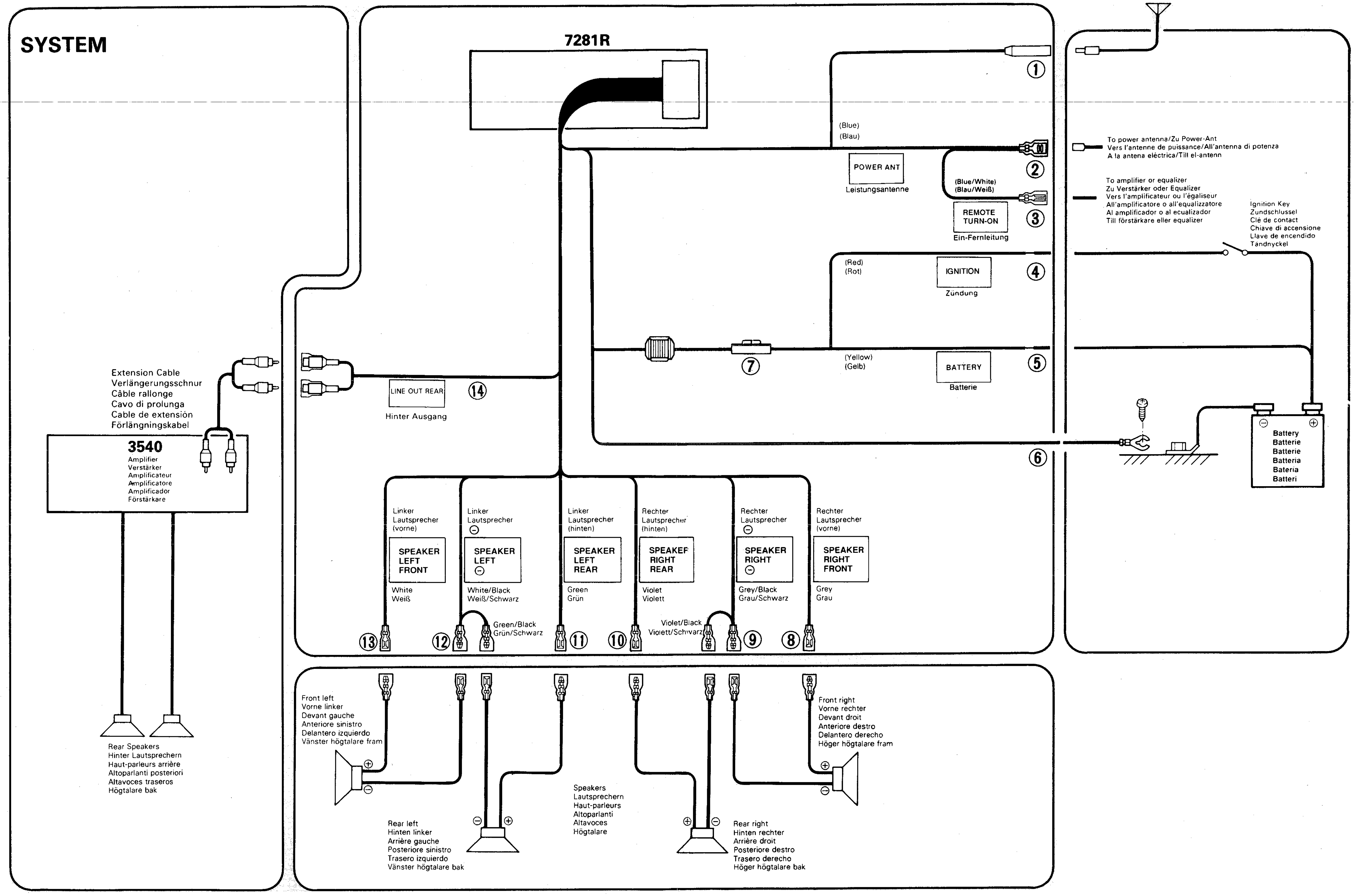
⑪ **Left Rear Speaker Output Lead (Green)**

⑫ **Left Speaker Output Lead (Common) (White/Black)**

⑬ **Left Front Speaker Output Lead (White)**

⑭ **Rear Output RCA Connectors**
RED is right and WHITE is left.

SYSTEM


7281R
Extension Cable
Verlängerungsschnur
Câble rallonge
Cavo di prolunga
Cable de extensión
Förlängningskabel
3540
Amplifier
Verstärker
Amplificateur
Amplificatore
Amplificador
Förstärkare
Rear Speakers
Hinter Lautsprechern
Haut-parleurs arrière
Altoparlanti posteriori
Altavoces traseros
Högtalare bak
LINE OUT REAR
Hinter Ausgang
⑭
①
(Blue)
(Blau)
POWER ANT
Leistungsantenne
②
(Blue/White)
(Blau/Weiß)
REMOTE TURN-ON
Ein-Fernleitung
③
(Red)
(Rot)
IGNITION
Zündung
④
⑦
(Yellow)
(Gelb)
BATTERY
Batterie
⑤
⑥
To power antenna/Zu Power-Ant
Vers l'antenne de puissance/All'antenna di potenza
A la antena eléctrica/Till el-antenn
To amplifier or equalizer
Zu Verstärker oder Equalizer
Vers l'amplificateur ou l'égaliseur
All'amplificatore o all'equalizzatore
Al amplificador o al ecualizador
Till förstärkare eller equalizer
Ignition Key
Zundschlussel
Clé de contact
Chiave di accensione
Llave de encendido
Tändnyckel
⊖
⊕
Battery
Batterie
Batterie
Batteria
Bateria
Batteri
Linker Lautsprecher (vorne)
SPEAKER LEFT FRONT
White
Weiß
Linker Lautsprecher ⊖
SPEAKER LEFT ⊖
White/Black
Weiß/Schwarz
Green/Black
Grün/Schwarz
Linker Lautsprecher (hinten)
SPEAKER LEFT REAR
Green
Grün
Rechter Lautsprecher (hinten)
SPEAKER RIGHT REAR
Violet
Violett
Violet/Black
Violett/Schwarz
Rechter Lautsprecher ⊖
SPEAKER RIGHT ⊖
Grey/Black
Grau/Schwarz
Rechter Lautsprecher (vorne)
SPEAKER RIGHT FRONT
Grey
Grau
⑬
⑫
⑪
⑩
⑨
⑧
Front left
Vorne linker
Devant gauche
Anteriore sinistro
Delantero izquierdo
Vänster högtalare fram
⊕
⊖
Rear left
Hinten linker
Arrière gauche
Posteriore sinistro
Trasero izquierdo
Vänster högtalare bak
Speakers
Lautsprechern
Haut-parleurs
Altoparlanti
Altavoces
Högtalare
Rear right
Hinten rechter
Arrière droit
Posteriore destro
Trasero derecho
Höger högtalare bak
Front right
Vorne rechter
Devant droit
Anteriore destro
Delantero derecho
Höger högtalare fram

Operation

BASIC OPERATION

3 Modes Setting Function

This unit allows setting of 3 modes shown below. For further details, refer to the description on each mode.

- FM level switching.
- Operation swiching when a traffic information station is not received.
- Switching of automatic tracing function. (Station name display & automatic tracing function/station name display only.)

Switching the FM Volume

Use this function if the difference in volume is great when switching between a tape and the FM radio.

1. Press the TUNE switch ㉓ for 3 seconds.
2. Press the Preset No.1 button to switch the display between "H" and "L".
   The FM volume can be set to one of two positions, high or low. Set the position according to the broadcast station.

Power Switching and Volume Control ㉗

Rotating the Power switch ㉗ clockwise turns the power On and continuously increases the volume. Rotating the control counterclockwise will continuously decrease the volume, and turn the power OFF.

Separate Bass and Treble Controls (①, ②)

Slide these controls to the right to increase, and to the left to decrease the level of Bass or Treble.

Balance Control ㉗

Pull on the VOLume control ㉗ and rotate to balance between left and right speakers.

Fader Control ㉘

Rotate the FADer control ㉘ for your desired front to rear volume balance.

RADIO OPERATION

Turn the power on and set the unit to the radio mode.

Tuning Band Selection

Press the BAND button ⑧ to select the desired tuning band. The Band indicator shows your selection.

Manual tuning

1. Press the TUNE switch ㉓ until the SEEK ⑲ and A. ME ⑱ indicators disappear in the display.
2. Select the tuning band with the BAND button ⑧. The Band indicator shows your selection.
3. To tune to higher frequencies, press the UP switch ⑦. To tune to lower frequencies, press the DN switch ⑥.

Auto SEEK Tuning

1. Press the TUNE switch ㉓ unitil the SEEK indicator ⑲ appears in the display.
2. Select the tuning band with the BAND button ⑧.
3. Press the UP ⑦ or DN switch ⑥. The unit automatically tunes to the next higher or lower frequency and locks on that station.

Manual Memory Preset

Follow the instructions below to program stations into preset memory.

1. Select the tuning band by pressing and releasing the BAND button ⑧.
2. Tune in your desired station by Manual or Auto Seek tuning.
3. Press and hold and Preset button ⑩ for more than two seconds. The tuned frequency in the Digital Display ⑫ will begin to blink. Press the Preset button a second time while the indication is blinking (with in five seconds).
4. Your selected station will be placed into that preset location and will appear in the display.

NOTE:

If a preset memory has already been programmed in that location, it will be cleared and the new station will replace the old preset.

Auto MEmory Preset

1. Press the TUNE switch ㉓ to light up the A. ME indicator ⑱.
2. Select the desired tuning band with the BAND button ⑧.
3. Press the UP ⑦ or DN ⑥ switch. The tuner will automatically seek the six strongest stations in the selected band and memorize them in order of their signal strength.
   These stations are automatically placed in the preset memory with the strongest station in Preset No.1 and the 6th strongest station in Preset No.6. When seeking station, the tuner first seeks in the local tuning mode. If less than 6 stations are memorized, the tuner seeks again in the distance (DX) mode.
4. After finishing the Auto Memory Preset, the tuner goes to the station placed in Preset Memory No.1. If no stations are memorized, it returns to the original station you were listening to before the Auto Memory Preset procedure began.

Preset Tuning

After the preset stations have been memorized, you can tune in your desired station (within the band displayed) with one touch of a button.

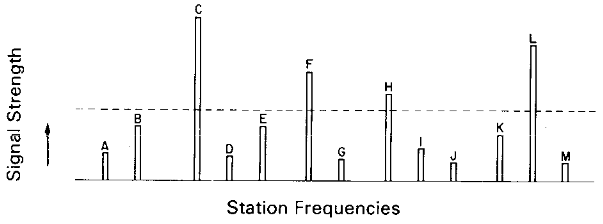
1. Select the tuning band with the BAND button ⑧.
2. Press any one of the preset buttons (1 – 6) and the number of that preset will illuminate in the display ⑫.
3. The frequency of the station placed in the selected preset location will appear in the display.

Local/Distance (DX) Seek Sensitivity for FM and AM

You can select the radio SEEK sensitivity (local or distance (DX)) by pressing the DX switch ㉔.

In the distance mode, with DX indication ⑬, the radio tunes in both strong and weak stations (all stations from A to M in the illustration).

In the local mode, with no DX indication ⑬, the radio tunes in only strong stations (stations C,F,H and L in the illustration).



TAPE PLAYER OPERATION

Playback

1. Insert a prerecorded cassette tape with the open side facing right. The playback begins immediately.
2. To stop tape play, press the Eject button ③ or turn the Power Off with the Power switch ㉗.

Fast Forward and Rewind

1. To fast-forward the tape, press the button ⑤ with the arrows pointing in the same direction as the Tape Direction indicator ⑰. To rewind, press the button ⑤ with the arrows pointing in the opposite direction of the Tape Direction indicator ⑰.
2. Lightly press the other button to disengage this function. The tape will start playing again.
3. When the Fast Winding operation reaches the end of the tape, the mode will automatically switch to playback.

Manual Reverse

To manually change playback direction (switch between side A and side B), press the PROGRAM button ⑤ (both buttons simultaneously).

Description of IC Terminal

45203W01 (IC601)

No.	Symbol	I/O	Terminal Description
1	SD	I	Central Detect Input
2	$\overline{\text{ST}}$	I	Stereo Signal Input
3	PK IN	I	Tape In Input
4	PLY IND	I	Tape For/Rev Input
5	GND	—	GND
6	GND	—	GND
7	$\overline{\text{RESET}}$	I	System Reset Input
8	V_{DD}	—	Power Supply Terminal
9	X2	—	Cermic element connection terminal for system clock osc
10	X1		
11	GND	—	GND
12	GND	—	GND
13	GND	—	GND
14	NC	—	NC
15	NC	—	NC
16	NC	—	NC
17	$\overline{\text{D-INH}}$	O	Display Put Out Output
18	D-CE	O	Display Driver Control Output
19	D-CLK	O	Display Serial Data Sync Signal Output
20	D-DAT2	O	Display Data Output 2
21	D-DAT1	O	Display Data Output 1
22	NC	—	NC
23	KY IN	I	Key Return Data Input
24	Y-OUT	O	Key Scan Data Output
25	NC	—	NC
26	NC	—	NC
27	K-CLK	O	Key Return/Scan Data Sync Signal Output
28	K-LD	O	Key Scan Data Latch Output
29	OUT-INT	O	Outside Pause Output
30	NC	—	NC
31	NC	—	NC

No.	Symbol	I/O	Terminal Description
32	NC	—	NC
33	AM-REQ	O	AM Seek Control
34	NC	—	NC
35	NC	—	NC
36	NC	—	NC
37	NC	—	NC
38	NC	—	NC
39	NC	—	NC
40	NC	—	NC
41	NC	—	NC
42	GND	—	GND
43	GND	—	GND
44	GND	—	GND
45	GND	—	GND
46	GND	—	GND
47	GND	—	GND
48	GND	—	GND
49	GND	—	GND
50	NC	—	NC
51	GND	—	GND
52	GND	—	GND
53	GND	—	GND
54	$\overline{EA}$	I	Action Indication Input for ROM
55	NC	—	NC
56	PLL-DO	O	Data Output for PLL
57	PLL-CLK	O	Sync Signal Output for PLL
58	PLL-CE	O	PLL-CE Control Output
59	PLL-DI	I	Data Input for PLL
60	NC	—	NC
61	GND	—	GND
62	GND	—	GND
63	STBY-CONT	O	Stand-By Control Output
64	$\overline{MUTE}$	O	Audio Mute Output
65	V_{DD}	—	Power Supply Terminal

No.	Symbol	I/O	Terminal Description
66	V_{DD}	—	Power Supply Terminal
67	$\overline{\text{LOUD}}$	O	Loudness ON/OFF Output
68	GND	—	GND
69	$\overline{\text{T}}$/R	O	Tape/Radio Selection Output
70	NC	—	NC
71	POW-OUT	O	Power On Output
72	POW-IN	I	Power Switch Detect Input
73	ACC	—	Accessory Power Supply Input
74	BATT	—	Battery Power Supply Input
75	WAKE-UP	I	Stand-By Return Pulse Input
76	RDS-CLK	I	RDS Clock Input
77	RDS-DAT	I	RDS Data Input
78	NC	—	NC
79	$\overline{\text{RDS}}$	I	RDS Signal Input
80	$\overline{\text{SK}}$	I	SK Signal Input
81	$\overline{\text{DK}}$	I	DK Signal Input
82	TEST	I	Test Mode Set Up Input
83	GND	—	GND
84	NC	—	NC
85	GND	—	GND
86	GND	—	GND
87	AMP ON	O	Amp Power Supply Control Output
88	IF-MUTE	O	AF Search Mute Output
89	$\overline{\text{LPF SW}}$	O	Gain Select Output for L.P.F
90	$\overline{\text{AUDIO IN}}$	I	Audio Signal Input
91	ALM SW	O	Alarm Output/Audio Select Output
92	ALARM	O	Alarm Output
93	S-METER	I	Field Strength Input
94	$\overline{\text{SEARCH}}$	I	Search Start Detect Input

Electrical Inspection Specification

1. Measuring Conditions

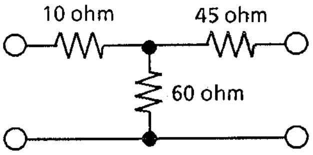
(1) Power Supply : DC14.4±0.2V
(2) Load Impedance : 4 ohm (Pre Out : 10k ohm)
(3) Power Output : 1W (2V)
(4) Signal Generator Output : SG Indication (SG of OPEN Indication)
(5) Control Settings
Fader — Center Position
Balance — Center position
Treble — Center Position
Bass — Center Position
(6) Standard Modulations

(FM) Mono : 400Hz 22.5kHz Deviation
Stereo : 1kHz
Pilot : 8%

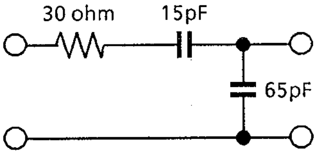
(MW/LW) 30% 400Hz

(7) Dummy Antenna

FM



MW/LW



2. FM Inspection

Step	Item		SG				Spec.
			f (MHz)	Input(dB)	Mod.	ST.	
1	Usable Senstitvity		90.1	14	ON/OFF	OFF	S/N more than 30dB
			106.1	14	ON/OFF	OFF	S/N more than 30dB
2	Stop Level (DX)	To be not Stopped	98.1	21	ON	OFF	
		To be Stopped	98.1	32	ON	OFF	27±5dB
	Stop Level (LOC)	To be not Stopped	98.1	46	ON	OFF	
		To be Stopped	98.1	67	ON	OFF	57±10dB
3	Distortion		98.1	72	ON	OFF	less than 1%
4	Stereo Separation		98.1	72	ON	ON:1kHz Lch only	less than 25dB (IHF T-200)
5	Stereo Blend		98.1	46±3	ON	ON:1kHz Lch only	8dB
6	Power Output (10% Dist.)		98.1	72	ON (40kHz)	OFF	more than 7.2V
7	Hi-Cut (10kHz)		98.1	72~36	ON	OFF	-3dB

Step	Item		SG				Spec
			f (MHz)	Input(dB)	Mod.	ST.	
8	TONE Control	TREBLE (10kHz)	98.1	72	ON	OFF	MAX. +10±3dB
							MIN. -10±3dB
		BASS (100Hz)	98.1	72	ON	OFF	MAX. +10±4dB
							MIN. -10±4dB
9	Loudness	100Hz	98.1	72	ON	OFF	**LD** indicator should turned ON. Output should be increased.

3. MW Inspection

Step	Item		SG			Spec
			f (kHz)	Input(dB)	Mod.	
1	Usable Sensitivity		999	34	ON/OFF	S/N more than 20dB
2	Stop Level (DX)	To be not Stopped	999	23	ON	
		To be Stopped	999	44	ON	34±10dB
	Stop Level (LOC)	To be not Stopped	999	42	ON	
		To be Stopped	999	76	ON	L/D 30±12dB
3	Distortion		999	74	ON	less than 1.5%
4	Level difference from FM level		999	74	ON	-2±3dB

4. LW Inspection

Step	Item		SG			Spec
			f (kHz)	Input(dB)	Mod.	
1	Usable Sensitivity		216	41	ON/OFF	S/N more than 20dB
2	Stop Level (DX)	To be not Stopped	216	23	ON	
		To be Stopped	216	44	ON	34±10dB
	Stop Level (LOC)	To be not Stopped	216	42	ON	
		To be Stopped	216	76	ON	L/D 30±12dB
3	Distortion		216	74	ON	less than 1.5%

5. SDK Inspection

Step	Item	SG				Spec
		f (MHz)	Input(dB)	Mod.	ST.	
1	SK Lighting	98.1	26	ON	OFF SK, BK : ON	less than 26dB
2	Alarm Check	98.1	72	ON	OFF	Should be Alarm after about 3 sec.
3	Cut In Output Check	98.1	72	ON	ON SK, BK, DK : ON	175mV ± 3dB with Volume Minimum. (T. INFO : ON)
4	Tape Pause Check	98.1	72	ON	OFF SK, BK, DK : ON	Should be pause with PAC Inserted.
5	T.INFO SEEK Check	98.1	72	ON	OFF SK, BK, DK : ON	To be Stopped with T. INFO ON.
					OFF	To be not Stopped with T. INFO ON.

6. RDS Inspection

Step	Item	SG				Spec
		f (MHz)	Input(dB)	Mod.	ST.	
1	Auto Follow Check	※ 90.1 98.1	37 0	ON ON	98.1MHz RDS : ON	Turn the **A.P.I.** switch on and confirm that the station name is displayed. After approximately 5 seconds, decrease -20dB by turning the attenuator on and ensure that the output is available at the L channel only.
		※ 90.1 98.1	55 100	ON ON	90.1MHz ON : 1kHz Lch only TP : ON	
2	FM Level Check	98.1	72	ON	OFF SK, BK, DK : OFF	Press the **TUNE** switch for 3 seconds and ensure that when the preset 1 is turned on " FM-LV H " is displayed, and after this display " FM-LV L " will be displayed and the output reading is -6 ± 3dB when the preset 1 is turned on again.

※ : Concentration Signal

7. TAPE Inspection

Step	Item		Test Tape	Spec
1	S/N		MTT-212N	JISA FILTER more than 50dB
2	Separation		MTT-141N	NOR : L only REV : R only more than 30dB 1kHz B.P.F
3	Frequency Response		MTT-256	High : more than -3dB
				Low : more than -3dB
4	Wow & Flutter		MTT-111N	less than 0.25%
5	M.S. operation	To be Stopped	ITT-610	**M.S.** indicator should be turned on.
		To be not Stopped	ITT-607E	

7. TAPE Inspection

Step	Item	Test Tape	Spec
6	DOLBY Operation B type	C-60 (No Recoading)	DD indicator should be tuned on. Output should be decreased.
7	PRE OUT Output	MTT-212N	more than 1V
		MTT-141N	Check L / R ch Output
8	Distortion	MTT-118N	less than 2.5%
9	Level difference from FM Level	MTT-212N	5 ± 3dB Ref. FM 1W Output 22.5kHz Dev.
10	Crosstalk	MTT-121N	1kHz B.P.F more than 45dB

8. BATTERY (BA601) Inspection

Step	Item	Spec
1	Voltage Check	more than 2.9V
2	Cautions on battery installation	Mount batteries and short - circuit the battery ground pattern and then allow a current to flow for more than 2 seconds within 10 minutes after the battery installation.

Adjustment Procedures

1 FM SECTION

(1) Dummy Antenna Circuit

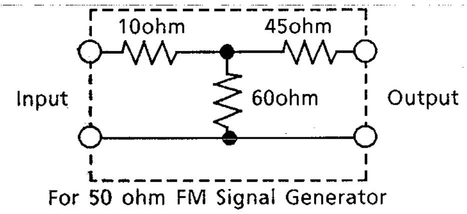

10ohm
45ohm
Input
60ohm
Output
For 50 ohm FM Signal Generator

Figure 7

(2) Connections

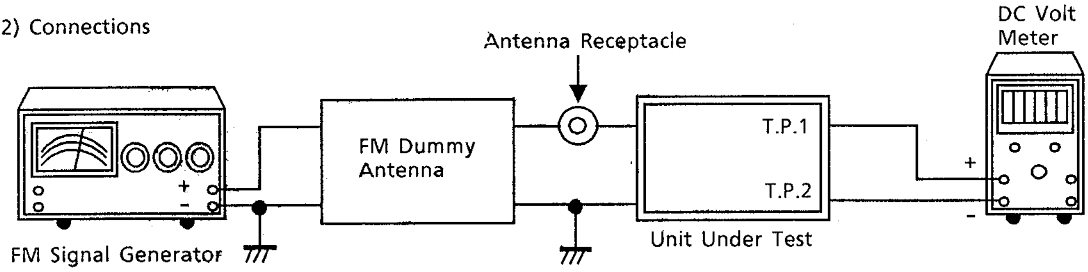

Antenna Receptacle
DC Volt Meter
FM Dummy Antenna
T.P.1
T.P.2
+
-
FM Signal Generator
Unit Under Test

Figure 8

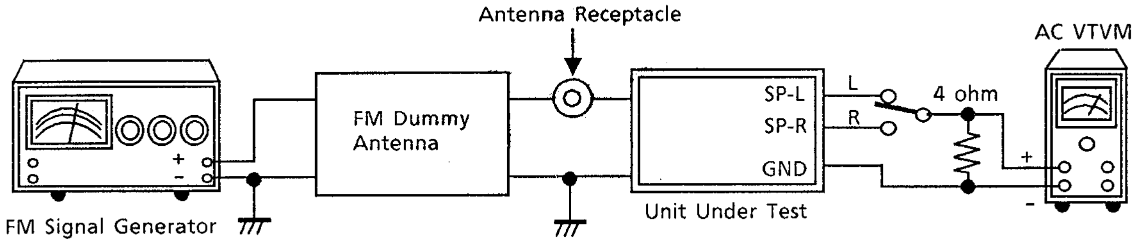

Antenna Receptacle
AC VTVM
FM Dummy Antenna
SP-L
SP-R
GND
L
R
4 ohm
+
-
FM Signal Generator
Unit Under Test

Figure 9

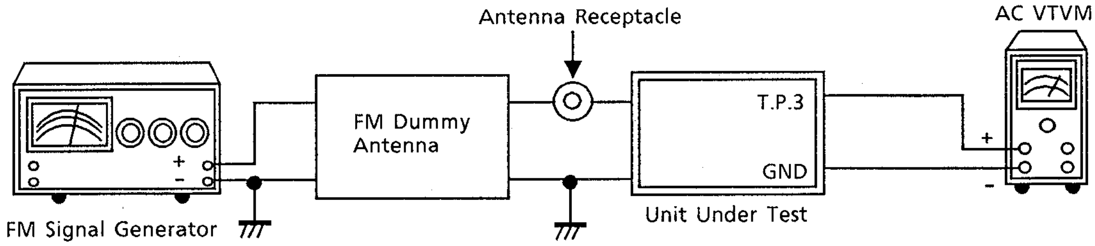

Antenna Receptacle
AC VTVM
FM Dummy Antenna
T.P.3
GND
+
-
FM Signal Generator
Unit Under Test

Figure 10

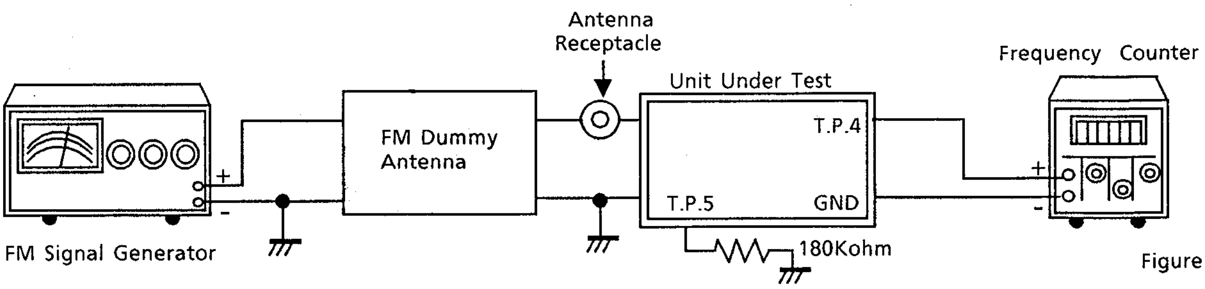

Antenna Receptacle
Unit Under Test
Frequency Counter
FM Dummy Antenna
T.P.4
T.P.5
GND
180Kohm
+
-
FM Signal Generator

Figure 11

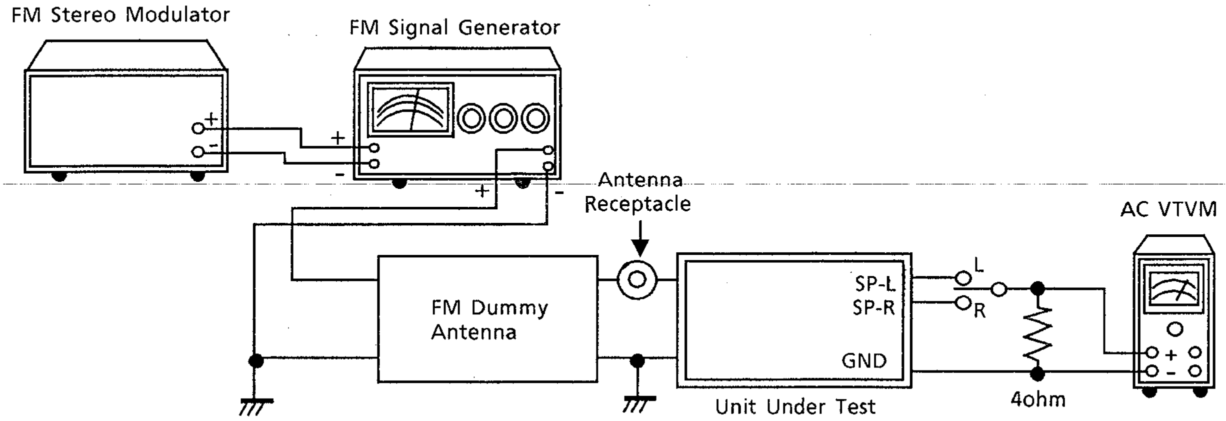

FM Stereo Modulator
FM Signal Generator
+
-
+
-
Antenna Receptacle
FM Dummy Antenna
SP-L
SP-R
GND
Unit Under Test
L
R
4ohm
AC VTVM
+
-

Figure 12

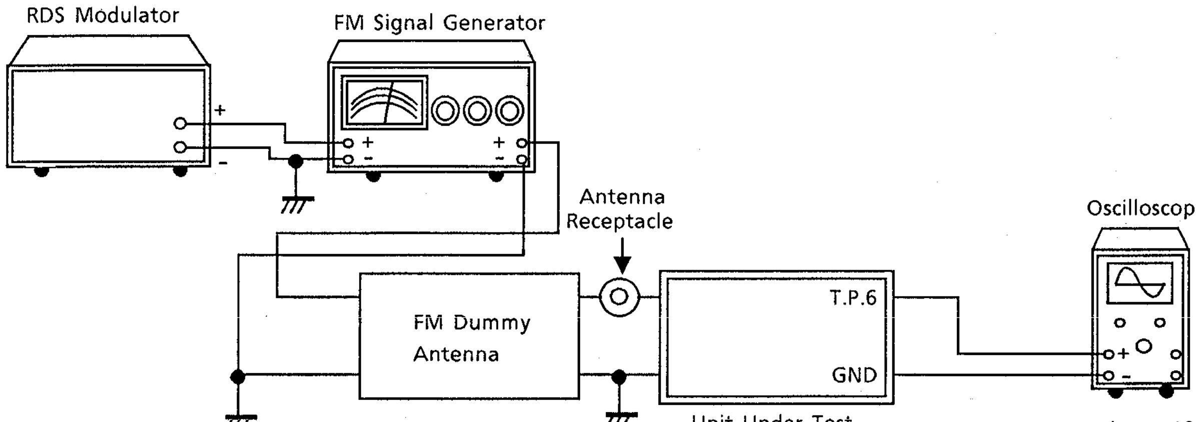
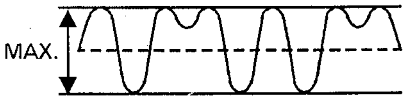

RDS Modulator
FM Signal Generator
+
-
+
-
+
-
Antenna Receptacle
FM Dummy Antenna
T.P.6
GND
Unit Under Test
Oscilloscope
+
-

Figure 13

(3) Control Settings

Power Switch	ON
Fader Control	Front
Balance Control	Mechanical Center
Treble / Bass Control	Mechanical Center
Band Switch	FM
Others	OFF

(4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 8	98.1MHz, 66dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	T2101 for 0±30mV.
2	Noise Level Adjustment	(1)	Figure 9	98.1MHz, 66dB (Mod. 400Hz, Dev. 22.5kHz)	98.1MHz	Speaker Output	Adjust VR204 (VOLUME) to obtain 2V output This value is 0dB.
		(2)	Figure 9	98.1MHz, -19dB (Mod. 400Hz, Dev. 22.5kHz)	98.1MHz	Speaker Output	Adjust VR2102 to 35±5dB output at SG level minimum.
3	Seek Stop Adjustment		Figure 10	98.1MHz, 27dB (Mod. 400Hz, Dev. 22.5kHz)	98.1MHz	T.P.3	Adjust VR2101 to obtain 27±5dB at T.P.3 output.
4	VCO Adjustment		Figure 11	98.1MHz 66dB (Mod. 400Hz, Dev. 22.5kHz)	98.1MHz	T.P.4	Adjust VR003 to read 19±0.05KHz on Counter at T.P.4.
5	Stereo Separation Adjustment (Lch)		Figure 12	98.1MHz 66dB (Stereo Mod, Lch, only)	98.1MHz	Speaker Output	Adjust VR002 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 25dB.
6	Stereo Blend Adjustment (Lch)		Figure 12	98.1MHz 46dB (Stereo Mod, Lch, only)	98.1MHz	Speaker Output	Adjust VR006 for Lch and Rch output level difference to be 8dB.
7	Stereo Separation Adjustment (Rch)		Figure 12	98.1MHz 72dB (Stereo Mod, Rch, only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5 by alternating Lch and Rch.
8	Stereo Blend Adjustment (Rch)		Figure 12	98.1MHz 46dB (Stereo Mod, Rch, only)	98.1MHz	Speaker Output	Proceed same adjustment under step 6.
9	RDS (Sencitivity) Adjustment		Figure 13	98.1MHz, 72dB (RDS : ON, Mod : 0.4%)	98.1MHz	T.P.6	Adjust VR005 so that the waveform of oscilloscope becomes maximum as shown in figure below. 

2 TAPE PLAYER SECTION

(1) Connections

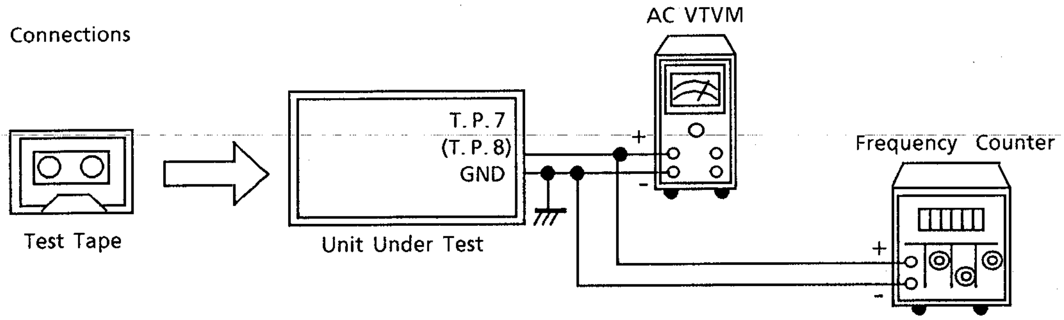


Figure 14

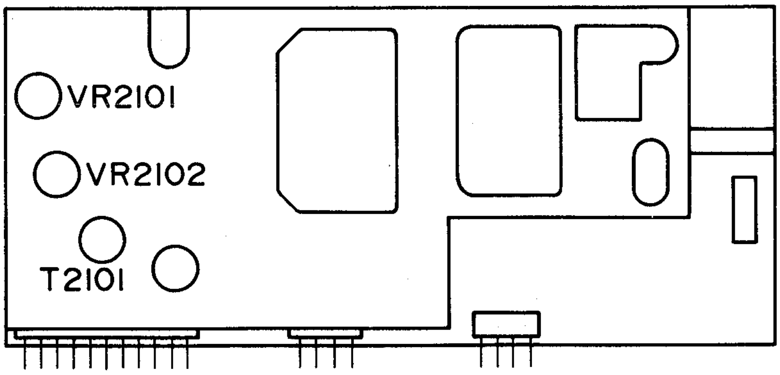
(2) Control Settings

Power Switch	ON
Fader Control	Front
Balance Control	Mechanical Center
Treble / Bass Control	Mechanical Center
Others	OFF

(3) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14KHz)	Figure 14	T.P.7 (Lch) T.P.8 (Rch)	Head Azimuth Adjustment Screws (Figure 15)	Adjust for Max. and same level output at Normal and Reverse positions.
2	Tape speed Adjustment	MTT-111N (3KHz)	Figure 14	T.P.7 (Lch) or T.P.8 (Rch)	Tape Speed Adjustment (Figure 16)	Adjust for 2,970 to 3,090Hz at T.P.7 (T.P.8).

Adjustment Locations


VR2101
VR2102
T2101

FM/MW/LW Tuner Unit

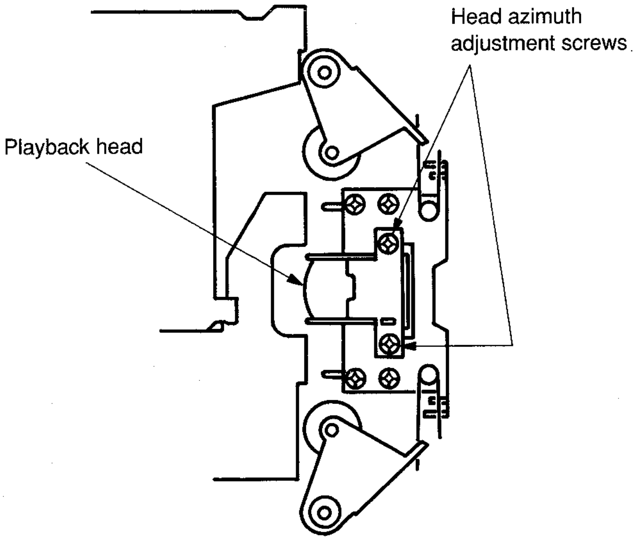

Head azimuth
adjustment screws.
Playback head

Figure 15

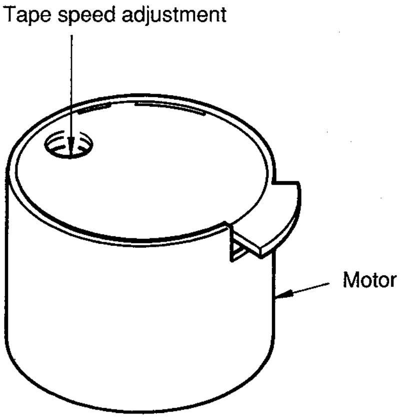
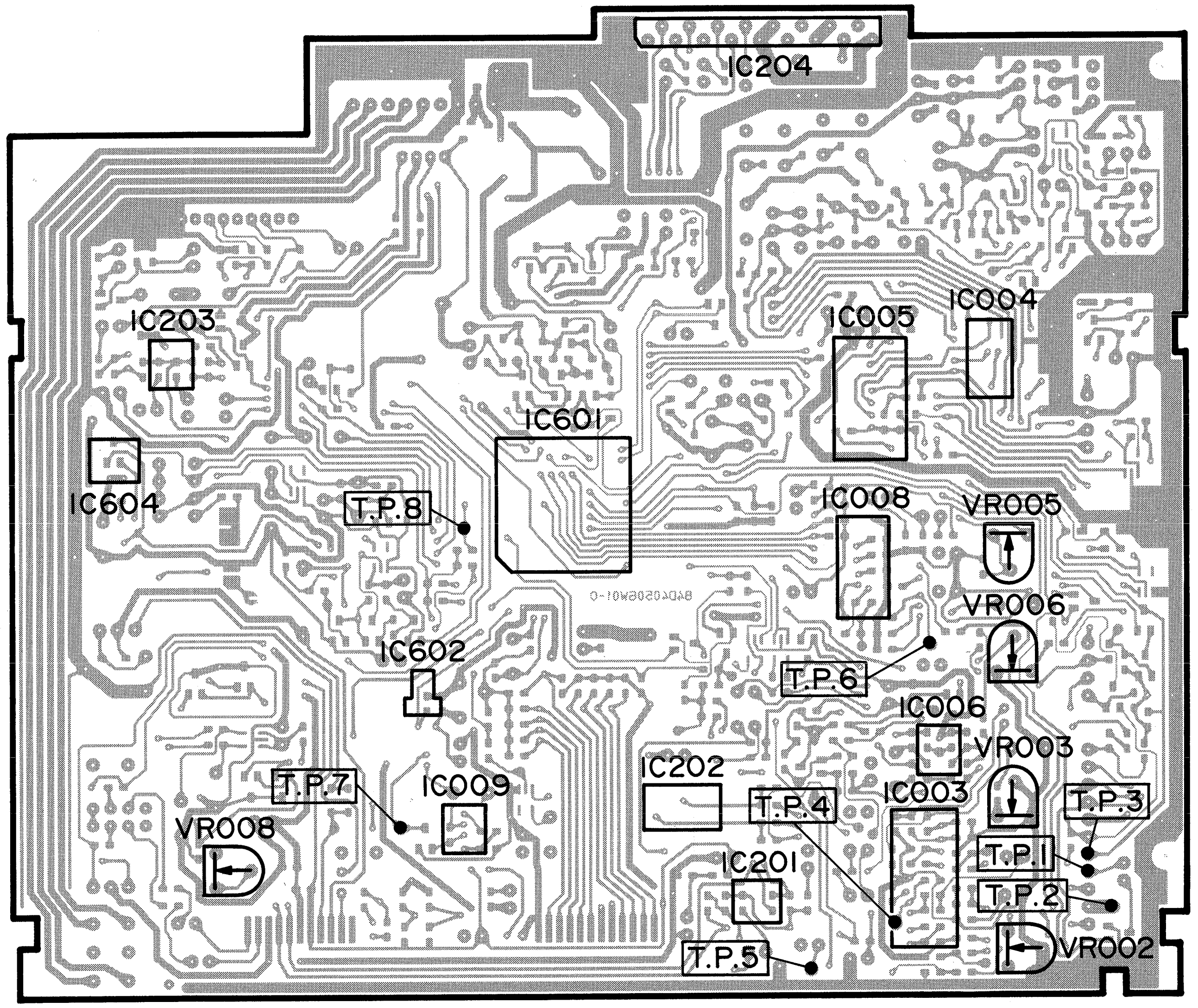
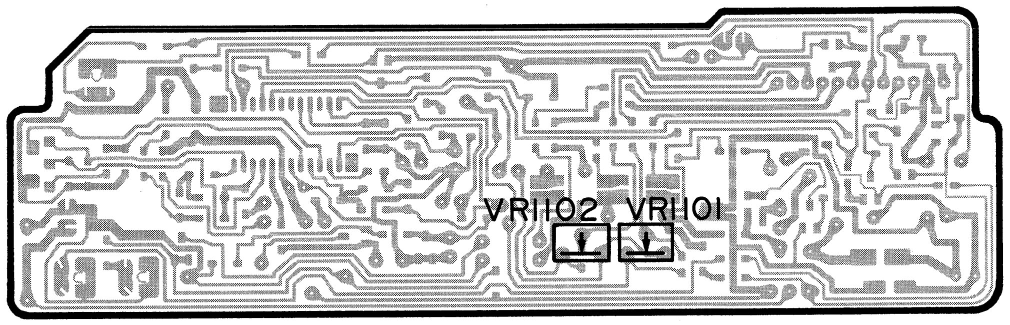

Tape speed adjustment
Motor

Figure16

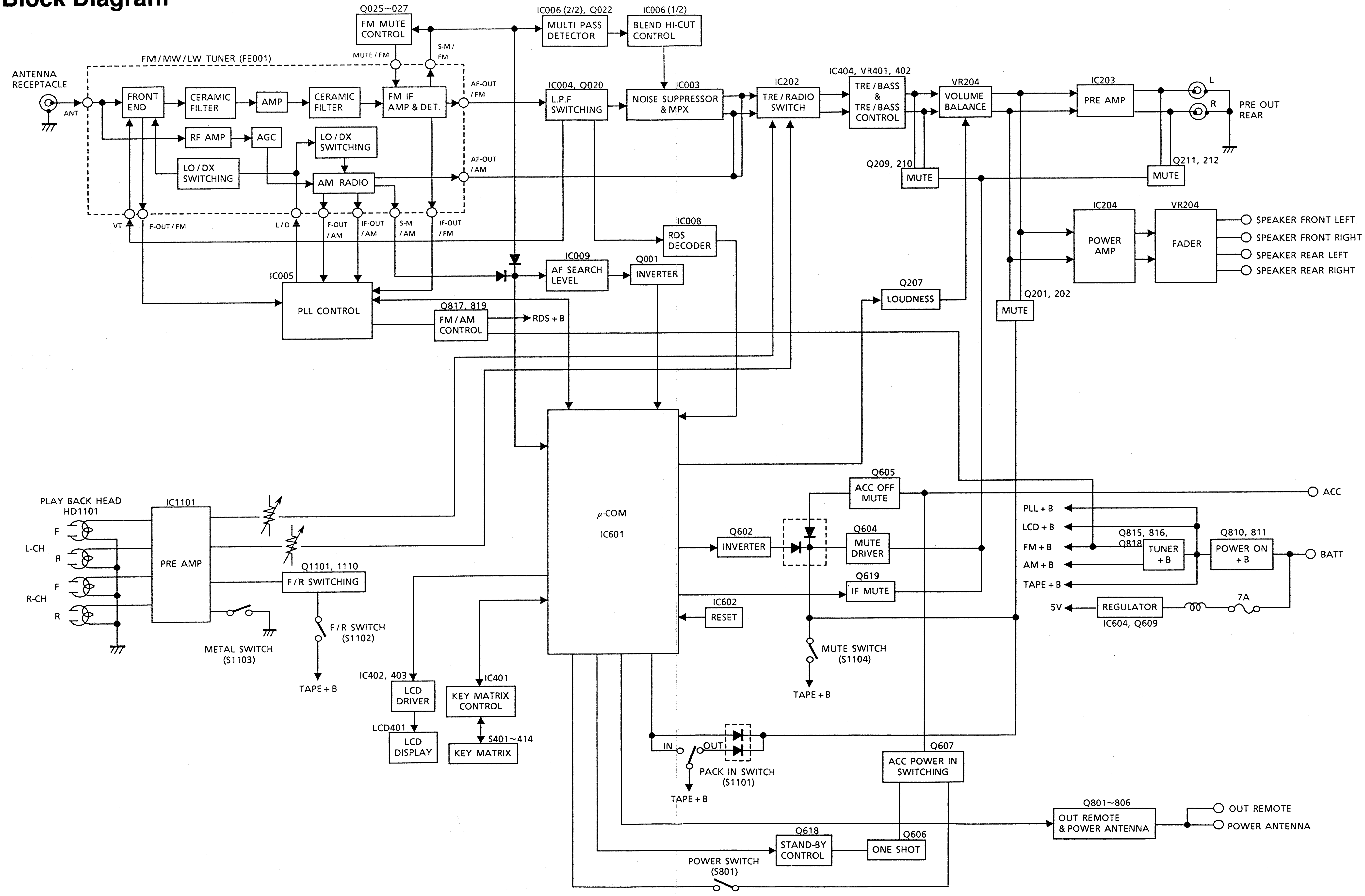

IC204
IC203
IC005
IC004
IC601
IC604
T.P.8
IC008
VR005
VR006
IC602
T.P.6
IC006
VR003
IC202
T.P.7
IC009
T.P.4
IC003
T.P.3
VR008
IC201
T.P.1
T.P.2
T.P.5
VR002

Main P.C. Board
(Component Side)

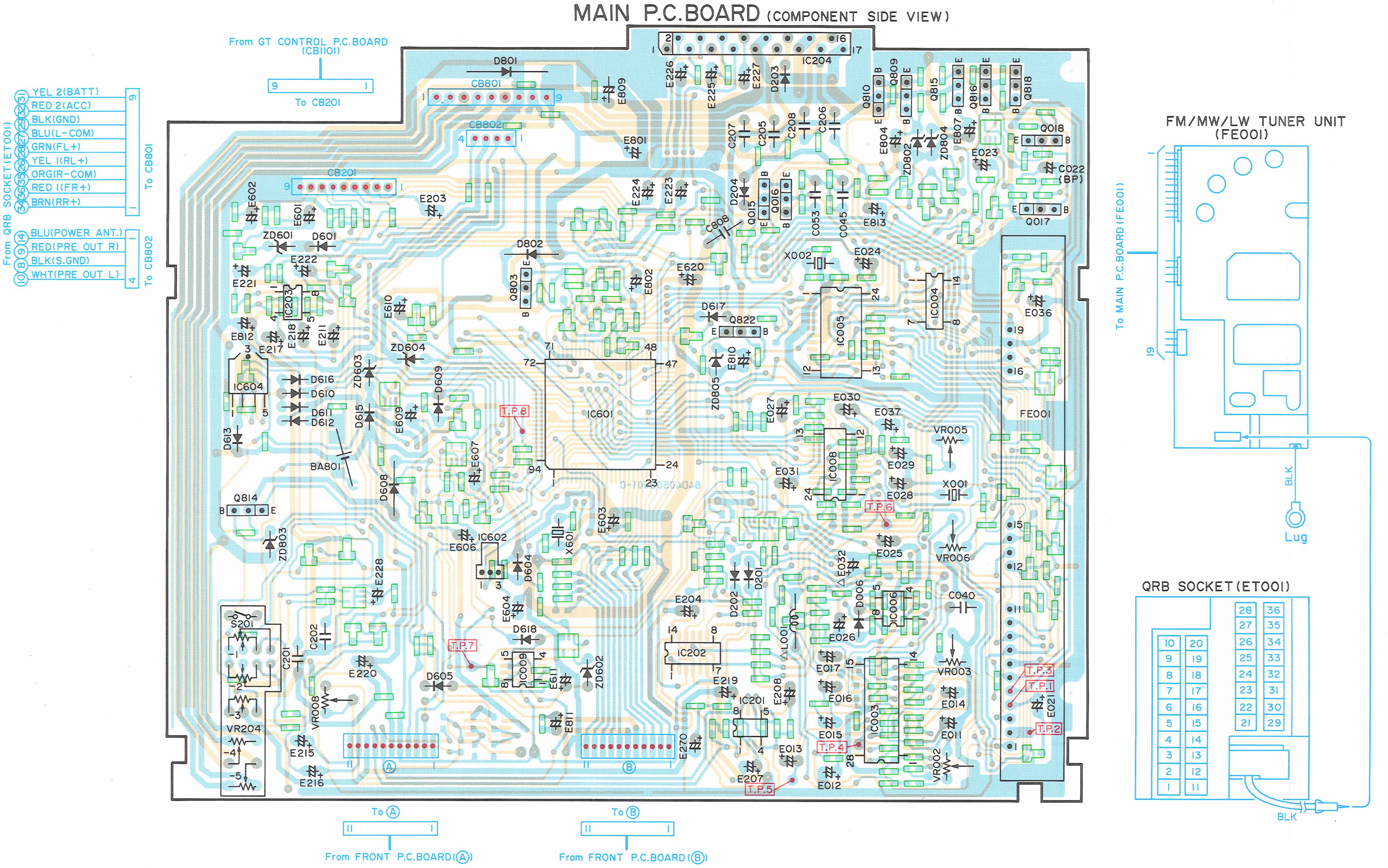

VR1102
VR1101

GT Control P.C. Board
(Component Side)

Block Diagram

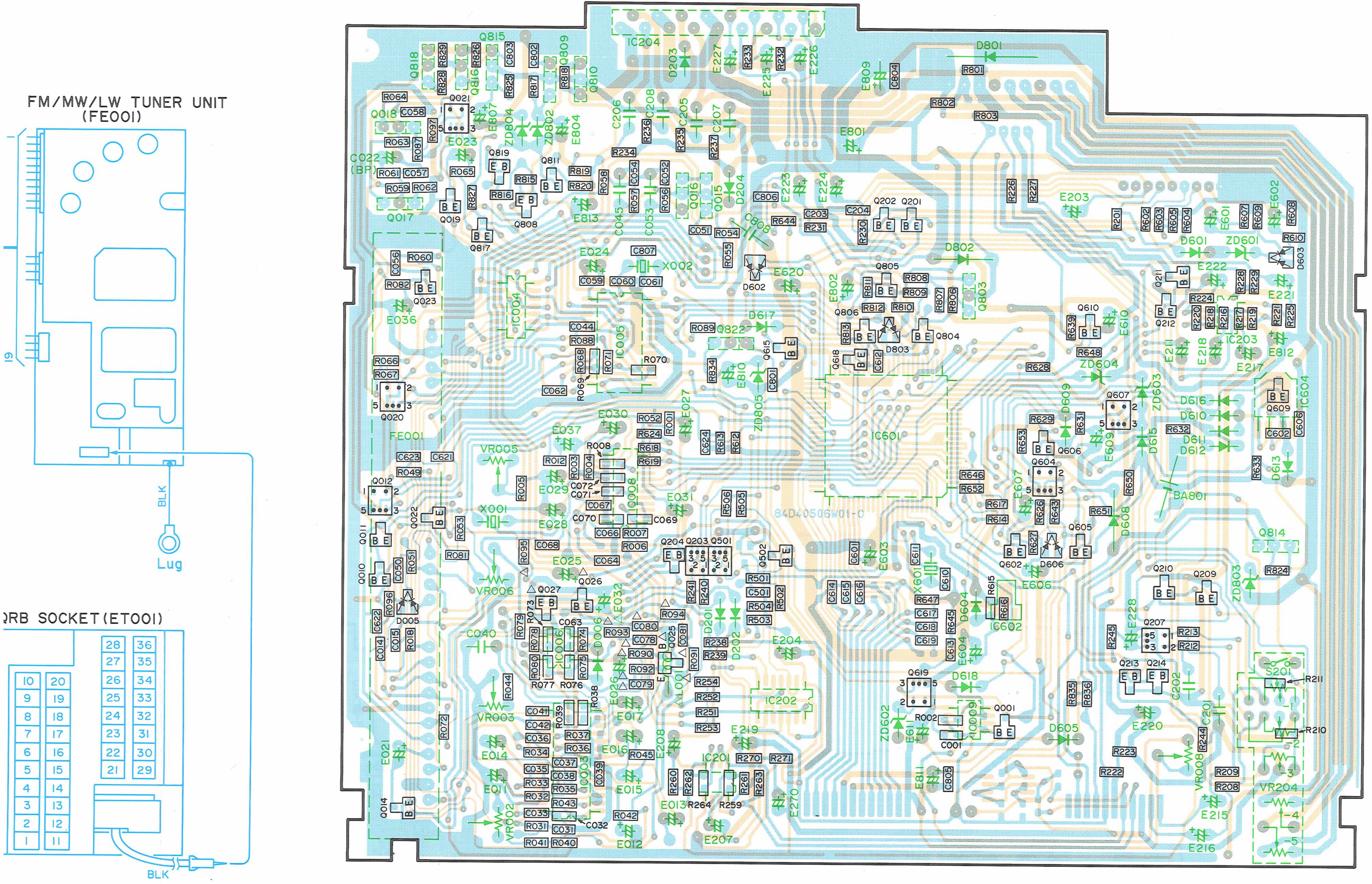

ANTENNA RECEPTACLE
ANT
FM / MW / LW TUNER (FE001)
FRONT END
CERAMIC FILTER
AMP
CERAMIC FILTER
FM IF AMP & DET.
RF AMP
AGC
LO / DX SWITCHING
LO / DX SWITCHING
AM RADIO
Q025~027
FM MUTE CONTROL
MUTE / FM
S-M / FM
AF-OUT / FM
AF-OUT / AM
VT
F-OUT / FM
L / D
F-OUT / AM
IF-OUT / AM
S-M / AM
IF-OUT / FM
IC005
PLL CONTROL
Q817, 819
FM / AM CONTROL
RDS + B
IC006 (2/2), Q022
MULTI PASS DETECTOR
IC006 (1/2)
BLEND HI-CUT CONTROL
IC004, Q020
L.P.F SWITCHING
IC003
NOISE SUPPRESSOR & MPX
IC008
RDS DECODER
IC009
AF SEARCH LEVEL
Q001
INVERTER
IC202
TRE / RADIO SWITCH
IC404, VR401, 402
TRE / BASS & TRE / BASS CONTROL
VR204
VOLUME BALANCE
IC203
PRE AMP
L
R
PRE OUT REAR
Q209, 210
MUTE
Q211, 212
MUTE
IC204
POWER AMP
VR204
FADER
SPEAKER FRONT LEFT
SPEAKER FRONT RIGHT
SPEAKER REAR LEFT
SPEAKER REAR RIGHT
Q207
LOUDNESS
Q201, 202
MUTE
μ-COM
IC601
PLAY BACK HEAD HD1101
L-CH
R-CH
F
R
F
R
IC1101
PRE AMP
METAL SWITCH (S1103)
Q1101, 1110
F / R SWITCHING
F / R SWITCH (S1102)
TAPE + B
IC402, 403
LCD DRIVER
LCD401
LCD DISPLAY
IC401
KEY MATRIX CONTROL
S401~414
KEY MATRIX
Q605
ACC OFF MUTE
Q602
INVERTER
Q604
MUTE DRIVER
Q619
IF MUTE
IC602
RESET
MUTE SWITCH (S1104)
TAPE + B
IN
OUT
PACK IN SWITCH (S1101)
TAPE + B
Q607
ACC POWER IN SWITCHING
Q618
STAND-BY CONTROL
Q606
ONE SHOT
POWER SWITCH (S801)
ACC
PLL + B
LCD + B
FM + B
AM + B
TAPE + B
Q815, 816, Q818
TUNER + B
Q810, 811
POWER ON + B
BATT
5V
REGULATOR
IC604, Q609
7A
Q801~806
OUT REMOTE & POWER ANTENNA
OUT REMOTE
POWER ANTENNA

Parts Layout on P.C. Boards and Wiring Diagram (1/2)


MAIN P.C.BOARD (COMPONENT SIDE VIEW)
From GT CONTROL P.C.BOARD (CB1101)
To CB201
From QRB SOCKET (ET001)
YEL 2(BATT)
RED 2(ACC)
BLK(GND)
BLU(L-COM)
GRN(FL+)
YEL 1(RL+)
ORG(R-COM)
RED 1(FR+)
BRN(RR+)
To CB801
BLU(POWER ANT.)
RED(PRE OUT R)
BLK(S.GND)
WHT(PRE OUT L)
To CB802
CB801
CB802
CB201
IC204
IC601
IC602
IC603
IC604
IC005
IC004
IC008
IC006
IC003
IC009
IC202
IC201
BA801
X001
X002
X601
S201
VR204
VR008
VR005
VR006
VR003
VR002
FE001
T.P.1
T.P.2
T.P.3
T.P.4
T.P.5
T.P.6
T.P.7
T.P.8
To Ⓐ
From FRONT P.C.BOARD (Ⓐ)
To Ⓑ
From FRONT P.C.BOARD (Ⓑ)
FM/MW/LW TUNER UNIT (FE001)
To MAIN P.C.BOARD (FE001)
BLK
Lug
QRB SOCKET (ET001)
A
B
C
D
E
F
G
H
1
2
3
4
5

Orange Pattern: Component Side Pattern.
Blue Pattern: Foil Side Pattern.

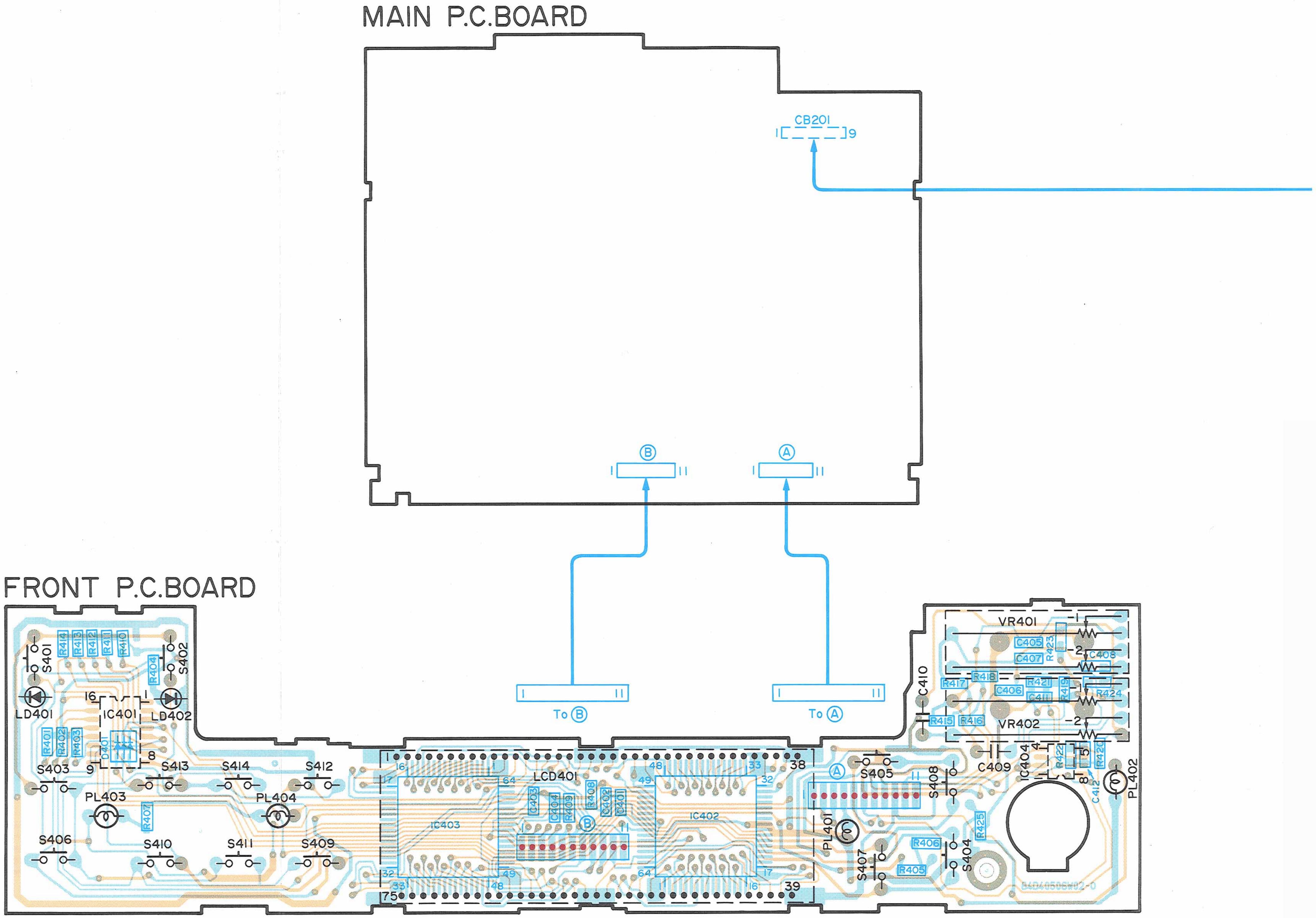
MAIN P.C.BOARD (FOIL SIDE VIEW)


FM/MW/LW TUNER UNIT
(FE001)
BLK
Lug
QRB SOCKET (ET001)
BLK
IC204
IC004
IC005
IC601
IC602
IC202
IC201
IC203
IC604
IC003
IC006
FE001
X001
X002
BA801
S201
VR002
VR003
VR005
VR006
VR008
VR204
84D40506W01-0

Notes :
○:For Serial Number before No. 11010500
△:For Serial Number after No. 11011001M
Others:Common

Parts Layout on P.C. Boards and Wiring Diagram (2/2)

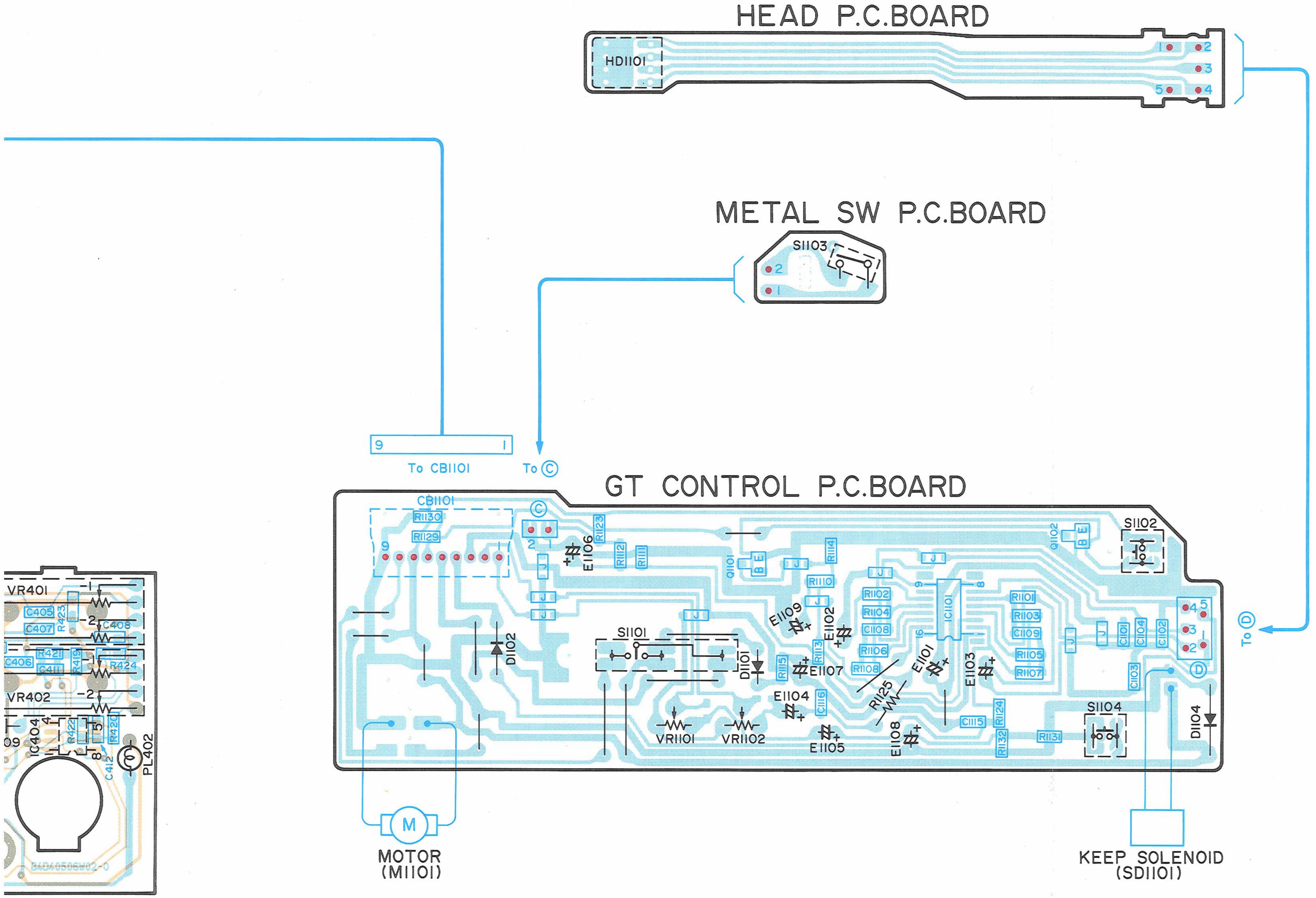
All P.C. Boards viewed from foil side.


MAIN P.C.BOARD
CB201
1
9
Ⓑ
Ⓐ
1
11
FRONT P.C.BOARD
To Ⓑ
To Ⓐ
S401
S402
R414
R413
R412
R411
R410
R404
LD401
LD402
IC401
16
9
8
R401
R402
R403
D401
S403
S413
S414
S412
PL403
PL404
R407
S406
S410
S411
S409
LCD401
IC403
IC402
C403
C404
R409
R408
C402
C401
1
16
17
32
33
48
49
64
75
38
39
S405
S408
PL401
S407
S404
R406
R405
R425
C410
VR401
C405
C407
R423
C408
R417
R418
R421
C406
C411
R419
R424
R415
R416
VR402
C409
IC404
R422
R420
C412
PL402

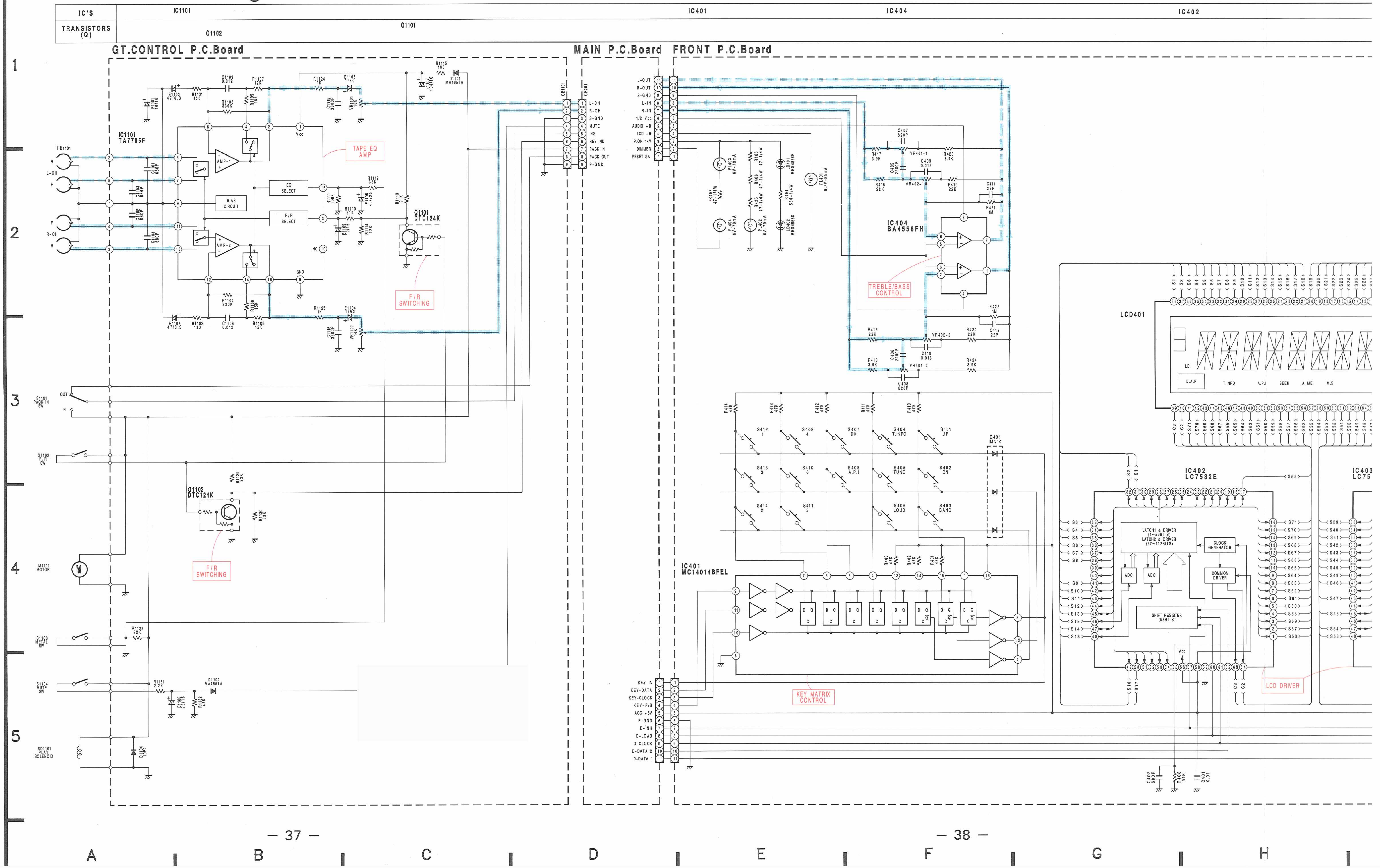
1
2
3
4
5

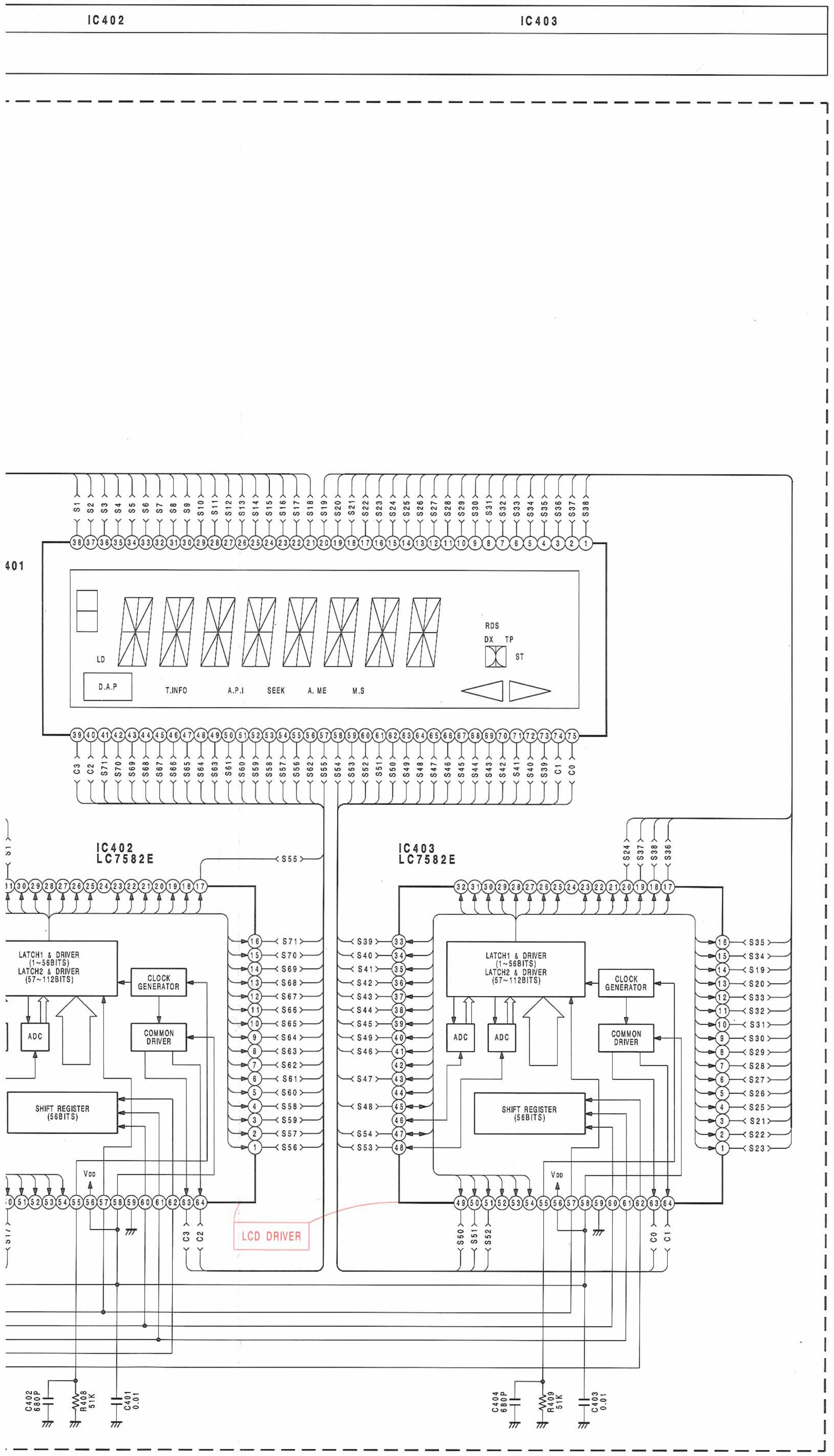
A B C D E F G H

Orange Pattern: Component Side Pattern.
Blue Pattern: Foil Side Pattern.


HEAD P.C.BOARD
HD1101
1
2
3
4
5
METAL SW P.C.BOARD
S1103
2
1
9
1
To CB1101
To ©
GT CONTROL P.C.BOARD
CB1101
R1130
R1129
©
R1123
E1106
R1112
R1111
Q1101
B E
R1114
R1110
Q1102
S1102
IC1101
R1102
R1104
C1108
R1106
R1108
R1101
R1103
C1109
R1105
R1107
C1101
C1104
C1102
C1103
E1109
E1102
E1107
E1101
E1103
R1113
R1115
R1125
S1101
D1101
D1102
E1104
C1116
E1105
E1108
C1115
R1124
R1132
R1131
S1104
D1104
VR1101
VR1102
To D
MOTOR
(M1101)
KEEP SOLENOID
(SD1101)
VR401
C405
C407
R423
C408
R421
C406
C411
R419
R424
VR402
IC404
R422
R420
C412
PL402

Schematic Diagram (1/3)


IC'S
IC1101
IC401
IC404
IC402
TRANSISTORS (Q)
Q1102
Q1101
GT.CONTROL P.C.Board
MAIN P.C.Board
FRONT P.C.Board
HD1101
R
L-CH
F
R-CH
IC1101
TA7705F
AMP-1
AMP-2
EQ SELECT
BIAS CIRCUIT
F/R SELECT
TAPE EQ AMP
Vcc
GND
NC
Q1101
DTC124K
F/R SWITCHING
Q1102
DTC124K
F/R SWITCHING
CB1101
CB201
L-CH
R-CH
S-GND
MUTE
ING
REV IND
PACK IN
PACK OUT
P-GND
L-OUT
R-OUT
S-GND
L-IN
R-IN
1/2 Vcc
AUDIO +B
LCD +B
P.ON 14V
DIMMER
RESET SW
S1101 PACK IN SW
OUT
IN
S1102 F/R SW
M1101 MOTOR
M
S1103 METAL SW
S1104 MUTE SW
SD1101 PLAY SOLENOID
D1101 MA165TA
D1102 MA165TA
PL403
PL404
PL401 6.7V-85mA
PL402
D403 MBG4868K
D402 MBG4868K
IC404
BA4558FH
TREBLE/BASS CONTROL
VR401-1
VR402-1
VR402-2
VR401-2
LCD401
D.A.P
T.INFO
A.P.I
SEEK
A.ME
M.S
LD
S412 1
S409 4
S407 DX
S404 T.INFO
S401 UP
S413 3
S410 6
S408 A.P.I
S405 TUNE
S402 DN
S414 2
S411 5
S406 LOUD
S403 BAND
D401 IMN10
IC401
MC14014BFEL
KEY MATRIX CONTROL
KEY-IN
KEY-DATA
KEY-CLOCK
KEY-P/S
ACC +5V
P-GND
D-INH
D-LOAD
D-CLOCK
D-DATA 2
D-DATA 1
IC402
LC7582E
LATCH1 & DRIVER (1~56BITS)
LATCH2 & DRIVER (57~112BITS)
CLOCK GENERATOR
ADC
COMMON DRIVER
SHIFT REGISTER (56BITS)
VDD
LCD DRIVER
IC403
LC75
1
2
3
4
5
A
B
C
D
E
F
G
H



NOTE

1. All resistance values are in ohms. K = 1,000 M = 1,000,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$
3. ○:Serial Number before No.11010500 model only
   △:Serial Number after No.11011001M model only

Others:Common

Voltage Measuring Conditions

1.Power Supply Voltage	:DC14.4V
2.Measuring Meter	:Digital Multi Voltmeter
3.Measuring Point Reference	:Between Ground
4.Measuring Conditions	TAPE:No Bias Tape FM:98.1MHz MW:999KHz LW:216KHz

IC003

1	2.3V	
2	1.8V	
3	1.3V	
4	0V	
5	2.5V	
6	1.2V	
7	1.2V	
8	1.9V	
9	0.2V	
10	6V	
11	2.4V	
12	2.3V	
13	2.2V	
14	0V/2.5V	ST/MO
15	2.5V	
16	2.5V	
17	5V	
18	0V	
19	2.5V	
20	2.5V	
21	1.4V	
22	2.4V	
23	2.4V	
24	2.5V	
25	8.5V	
26	2.5V	
27	2.3V	
28	2.5V	

IC008

	MODE	
1		1.6V
2		1.5V
3	RDS OFF	0.6V
	RDS ON	0.5V
4		1.5V
5		2.4V
6		2.5V
7		2.9V
8	RDS OFF	0.2V
	RDS ON	1.3V
9		1.5V
10		0V
11		0.8V
12		0.1V
13	DK OFF	5V
	DK ON	0.8V
14	SK OFF	5V
	SK ON	0.8V
15	RDS OFF	5V
	RDS ON	0.8V
16	SK OFF	0V
	SK ON	0.6V
17		0V
18		0V
19		0V
20		0V
21		0V
22		0V
23		5V
24	RDS OFF	3.8V
	RDS ON	3.3V

	IC006	IC009	IC201	IC203	IC404
1	6.1V	NC	4V	4.1V	4.4V
2	3.5V	NC	4V	4.1V	4.4V
3	3.3V	NC	4V	4.1V	4.4V
4	0V	0.1V	0V	0V	0V
5	6.5V	3.2V	4V	4.1V	4.4V
6	6.5V	5.4V	4V	4.1V	4.4V
7	6.5V	0.1V	4V	4.1V	4.4V
8	9V	8V	8V	8V	8.9V

IC204

1	5.6V
2	5.6V
3	5.6V
4	3.7V
5	0V
6	5.6V
7	5.6V
8	5.6V
9	13.4V
10	13.4V
11	6.5V
12	6.5V
13	0.1V
14	0.1V
15	6.5V
16	6.5V
17	13.4V

IC202(TUNER/TAPE)

1	0V/0V
2	0.7V/0V
3	0.7V/0.7V
4	0.7V/0V
5	8V/0V
6	8V/0V
7	0V
8	0.6V/0V
9	0.6V/0.6V
10	0.6V/0V
11	0V/0V
12	0V/7.3V
13	0V/7.3V
14	8V

	IC402	IC403
1	PS	PS
2	PS	PS
3	PS	PS
4	PS	PS
5	PS	PS
6	PS	PS
7	PS	PS
8	PS	PS
9	PS	PS
10	PS	PS
11	PS	PS
12	PS	PS
13	PS	PS
14	PS	PS
15	PS	PS
16	PS	PS
17	PS	PS
18	NC	PS
19	NC	PS
20	NC	PS
21	NC	NC
22	NC	NC
23	NC	NC
24	NC	NC
25	NC	NC
26	NC	NC
27	NC	NC
28	NC	NC
29	NC	NC
30	NC	NC
31	PS	NC
32	PS	NC
33	PS	PS
34	PS	PS
35	PS	PS
36	PS	PS
37	PS	PS
38	PS	PS
39	NC	PS
40	NC	PS
41	PS	PS
42	PS	NC
43	PS	PS
44	PS	NC
45	PS	PS
46	PS	NC
47	PS	PS
48	PS	PS
49	PS	PS
50	PS	PS
51	NC	PS
52	NC	NC
53	NC	NC
54	NC	NC
55	3.8V	3.8V
56	5V	5V
57	4.9V	4.9V
58	5V	5V
59	0V	0V
60	PS	PS
61	PS	PS
62	PS	PS
63	PS	PS
64	PS	PS

	MODE	E	C	B
Q001	SEARCH OFF	0V	5V	0V
	SEARCH ON	0V	0V	6.3V
Q010	AM OFF	0V	5V	0V
	AM ON	0V	0V	2.1V
Q011	AM OFF	5V	0V	5V
	AM ON	5V	5V	0V
Q014	SEEK	0V	0V	8.7V
Q015	API	0V	0.7V	0.7V
Q016	API	0.7V	0.7V	1.2V
Q017	API	0V	3.2V	0.7V
Q018	API	0.7V	8.9V	1.2V
Q019	LW	0V	0V	4.9V
Q022		0V	0V	8.9V
Q023		8.9V	0V	8.9V
△Q025		0.7V	8.5V	1.4V
△Q026		7V	0V	6.4V
△Q027		4.2V	0V	7V
Q201	PLY	0V	0V	0V
	FF	0V	0V	1.2V
Q202	PLY	0V	0V	0V
	FF	0V	0V	1.2V
Q204	FM	0V	0V	9V
Q209	MUTE	0V	0V	13V
Q210	MUTE	0V	0V	13V
Q211	MUTE	0.8V	0.8V	13V
Q212	MUTE	0.8V	0.8V	13V
Q213	DKorTA OFF	0V	0V	6.1V
	DKorTA ON	0V	0V	0.1V
Q214	DKorTA OFF	0V	0V	6.1V
	DKorTA ON	0V	0V	0.1V
Q502	RM SW OFF	0V	8V	0V
	RM SW ON	0V	0V	4.9V
Q602	MUTE OFF	0V	10.4V	0V
	MUTE ON	0.1V	0.1V	4.9V
Q605		0V	0V	0.7V
Q606		0V	0V	0.6V
Q609		4.7V	5.1V	5.5V
Q610	DKorTA OFF	0V	8.6V	0V
	DKorTA ON	0V	0V	4.9V
Q615		0V	3.7V	0V
Q618		0V	0V	4.4V
Q803		14V	14V	13V
Q804		0V	0V	9.7V
Q805		14V	0V	14V
Q806		0V	14V	0V
Q808	FM	5.1V	5V	4.4V
Q809		5.1V	14V	5.6V
Q810		14V	14V	13.4V
Q811		0V	0.2V	4.9V
Q814		9.5V	14V	10.1V
Q815		9.1V	14V	9.6V
Q816	FM	9.1V	9V	8.4V
Q817	FM	0V	0V	5V
	$\overline{\text{AM}}$	0V	9V	0V
Q818	AM	8.9V	8.7V	8.2V
Q819	FM	0V	0V	4.9V
	$\overline{\text{AM}}$	0V	5V	0V
Q822		8V	14V	8.7V

IC004

	MODE	
1	A.P.I OFF	0.7V
	A.P.I ON	3.3V
2	A.P.I OFF	0.7V
	A.P.I ON	3.3V
3	A.P.I OFF	3.3V
	A.P.I ON	8.9V
4		3.3V
5	A.P.I OFF	7.3V
	A.P.I ON	0V
6	SEARCH OFF	8.9V
	SEARCH ON	0V
7		0V
8		2.5V
9		2.5V
10		3.3V
11	A.P.I OFF	0.7V
	A.P.I ON	3.3V
12	A.P.I OFF	0V
	A.P.I ON	8.9V
13	SEEK OFF	8.9V
	SEEK ON	0.7V
14		8.9V

IC005

	MODE	
1		2.4V
2		PS
3		PS
4		PS
5		PS
6		NC
7		0V
8		0V
9		NC
10	FM,MW	0V
	LW	5V
11	FM	5V
	AM	0V
12	LO	0V
	DX	3.7V
13	ST	0V
	MO	3.4V
14	FM/MW	0.3V
	LW	4.2V
15		0V
16		0V
17	A.P.I OFF A.P.I ON	0.2V 4.2V
18		2.5V
19		2.5V
20		5.1V
21		1.1V
22		1.2V
23		0V
24		2.7V

IC601 MODE MO/ST

1	4.4V	48	0V
2	5V/0.7V	49	0V
3	5.3V/0.1V	50	NC
4	0V/4.9V	51	0V
5	0V	52	0V
6	0V	53	0V
7	5.2V	54	4.9V
8	4.9V	55	NC
9	2.5V	56	PS
10	2.5V	57	PS
11	0V	58	PS
12	0V	59	PS
13	0V	60	NC
14	NC	61	0V
15	NC	62	0V
16	NC	63	4.9V
17	–	64	0V/4.9V
18	PS	65	4.9V
19	PS	66	4.9V
20	PS	67	0.1V/4.9V
21	PS	68	0V
22	NC	69	0V/4.9V
23	PS	70	NC
24	PS	71	4.9V
25	NC	72	4.6V
26	NC	73	4.6V
27	PS	74	4.7V
28	PS	75	0V
29	–	76	PS
30	NC	77	PS
31	NC	78	NC
32	NC	79	5V/0.8V
33	4.8V/0.1V	80	5V/0.8V
34	NC	81	4.9V/0V
35	NC	82	5V
36	NC	83	0V
37	NC	84	NC
38	NC	85	0V
39	NC	86	0V
40	NC	87	4.9V
41	NC	88	0V
42	0V	89	4.9V/0V
43	0V	90	4.9V/0V
44	0V	91	0V/4.9V
45	0V	92	PS
46	0V	93	5.4V
47	0V	94	5V/0V

IC401

1	4.9V
2	PS
3	PS
4	4.9V
5	4.9V
6	4.9V
7	4.9V
8	0V
9	PS
10	PS
11	PS
12	PS
13	4.9V
14	4.9V
15	4.9V
16	5V

IC602

1	4.9V
2	4.9V
3	0V

IC604

1	13.3V
2	6.5V
3	0.7V
4	5.5V
5	5.7V

IC1101

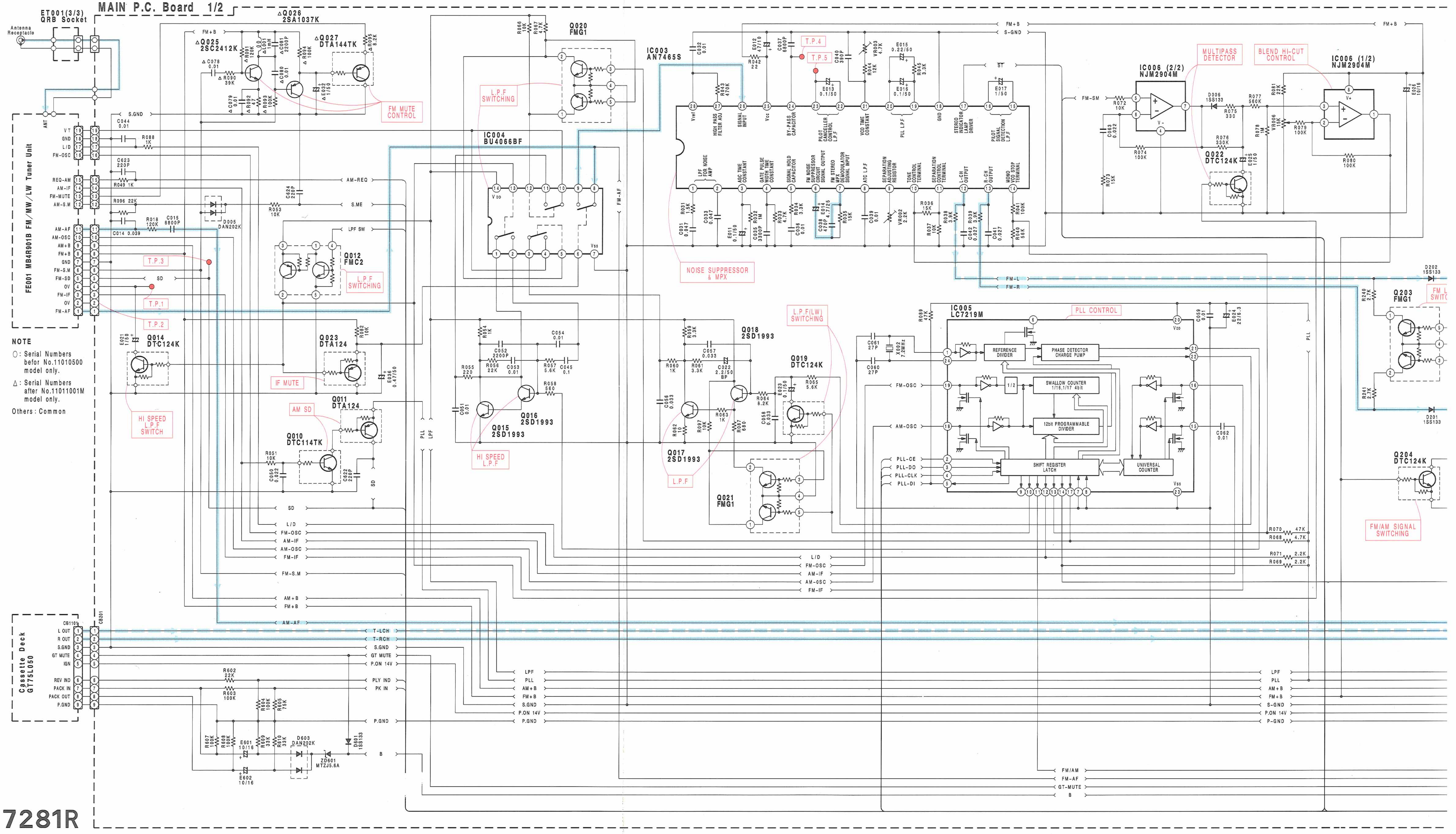
	MODE	
1		12.9V
2		2.97V
3	FF	0V
	REW	2.85V
4		2.85V
5		2.85V
6		2.85V
7		2.85V
8		0V
9		2.84V
10		NC
11		2.85V
12		2.85V
13		2.85V
14		2.85V
15	MTL	9.3V
	NOR	0V
16		2.96V

	MODE	1	2	3	4	5
Q012	SEEK OFF	0V	8.9V	9V	4.8V	0V
	SEEK ON	8.9V	0.7V	9V	0V	0V
Q020	A.P.I OFF	0V	7.3V	0.1V	0V	7.3V
	A.P.I ON	9V	0V	4.2V	0V	0V
Q021	LW OFF	6V	0V	6V	0V	0V
	LW ON	0V	0.6V	0V	0V	5V
Q203	LEVEL H	1.2V	1.2V	0V	0V	0.3V
	LEVEL L	0V	0V	4.2V	0V	4.2V
Q207	LOUD OFF	0V	0V	2.1V	0V	2.1
	LOUD ON	0V	0V	0V	0V	0V
Q501	TAPE OFF	8V	0V	4.9V	0V	0V
	TAPE ON	0V	7.3V	0V	0V	7.3V
Q604	MUTE OFF	13.1V	0V	13.1V	0V	0V
	MUTE ON	0V	13V	13.1V	6.8V	0V
Q607		0V	4.6V	4.6V	4V	0V
Q619	IF MUTE OFF	13.1V	0V	0V	0V	13.2V
	IF MUTE ON	13.1V	4.8V	13.1V	0V	0V

	MODE	E	C	B
Q1101	FF	0V	0.2V	14V
	REW	0V	7.5V	14V
Q1102		0V	0V	14V

Schematic Diagram (2/3)

IC'S				IC004	IC003	IC005	IC006 (2/2)	IC006 (1/2)
TRANSISTOR'S (Q)	Q014	△Q025	△Q026 △Q027 Q012 Q010 Q023 Q011	Q015 Q016 Q020	Q017 Q021 Q018 Q019		Q022	Q203 Q204


MAIN P.C. Board 1/2
ET001(3/3) QRB Socket
Antenna Receptacle
FE001 MB4R001B FM/MW/LW Tuner Unit
Cassette Deck GT75L050
CB110
CB201
△Q025 2SC2412K
△Q026 2SA1037K
△Q027 DTA144TK
FM MUTE CONTROL
Q020 FMG1
L.P.F SWITCHING
IC004 BU4066BF
IC003 AN7465S
T.P.4
T.P.5
NOISE SUPPRESSOR & MPX
IC006 (2/2) NJM2904M
IC006 (1/2) NJM2904M
MULTIPASS DETECTOR
BLEND HI-CUT CONTROL
Q022 DTC124K
Q012 FMC2
L.P.F SWITCHING
T.P.3
T.P.1
T.P.2
Q014 DTC124K
HI SPEED L.P.F SWITCH
Q023 DTA124
IF MUTE
AM SD
Q011 DTA124
Q010 DTC114TK
Q015 2SD1993
Q016 2SD1993
HI SPEED L.P.F
L.P.F(LW) SWITCHING
Q018 2SD1993
Q019 DTC124K
Q017 2SD1993
L.P.F
Q021 FMG1
IC005 LC7219M
PLL CONTROL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16,1/17 4bit
12bit PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
X002 7.2MHz
Q203 FMG1
Q204 DTC124K
FM/AM SIGNAL SWITCHING
FM-L
FM-R
T-LCH
T-RCH
S.GND
GT MUTE
P.ON 14V
PLY IND
PK IN
P.GND
FM/AM
FM-AF
GT-MUTE
B
D603 DAN202K
ZD601 MTZJ5.6A
D601 1SS133
D005 DAN202K
D006 1SS133
D201 1SS133
D202 1SS133

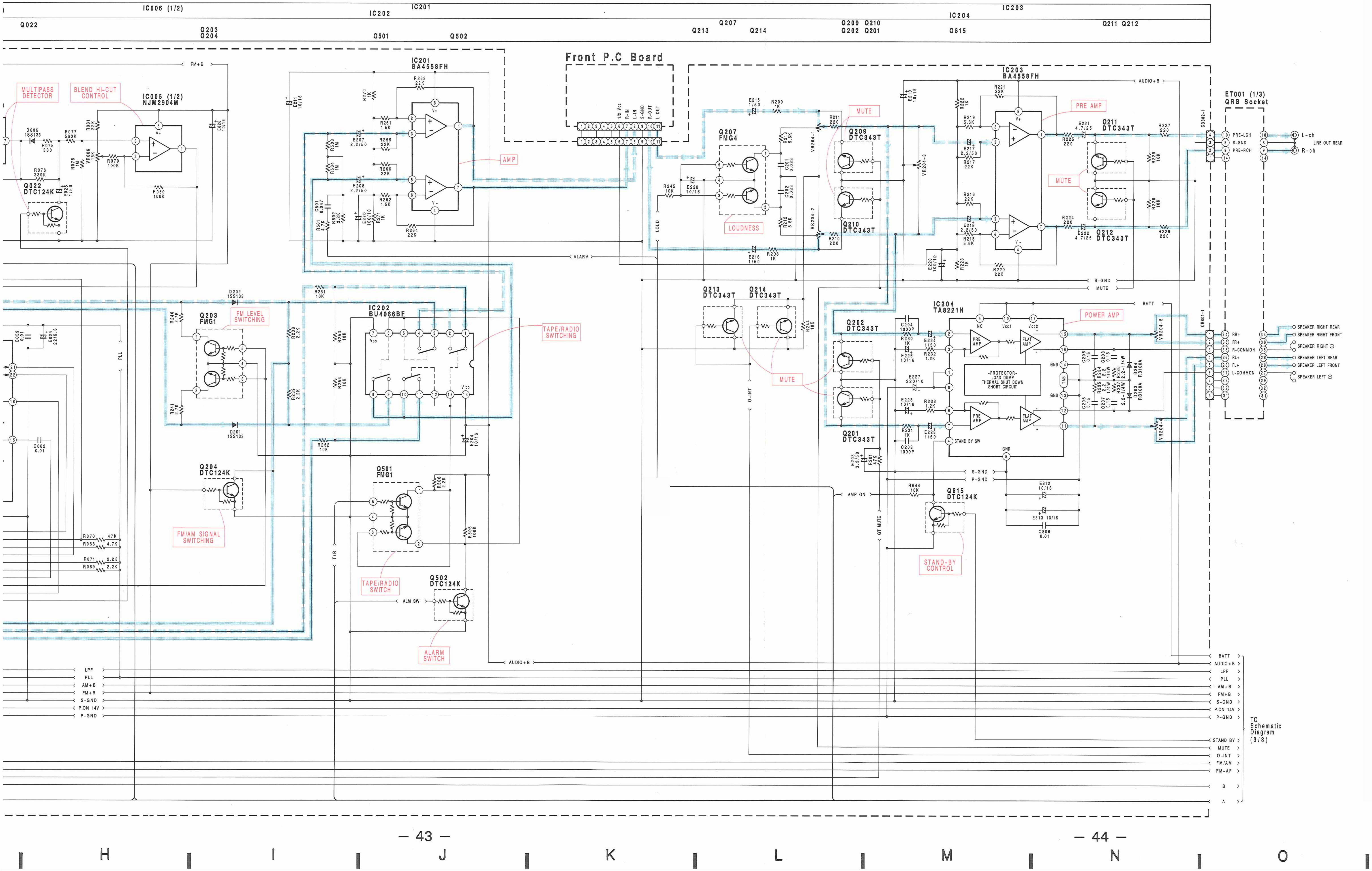
NOTE

○: Serial Numbers befor No.11010500 model only.

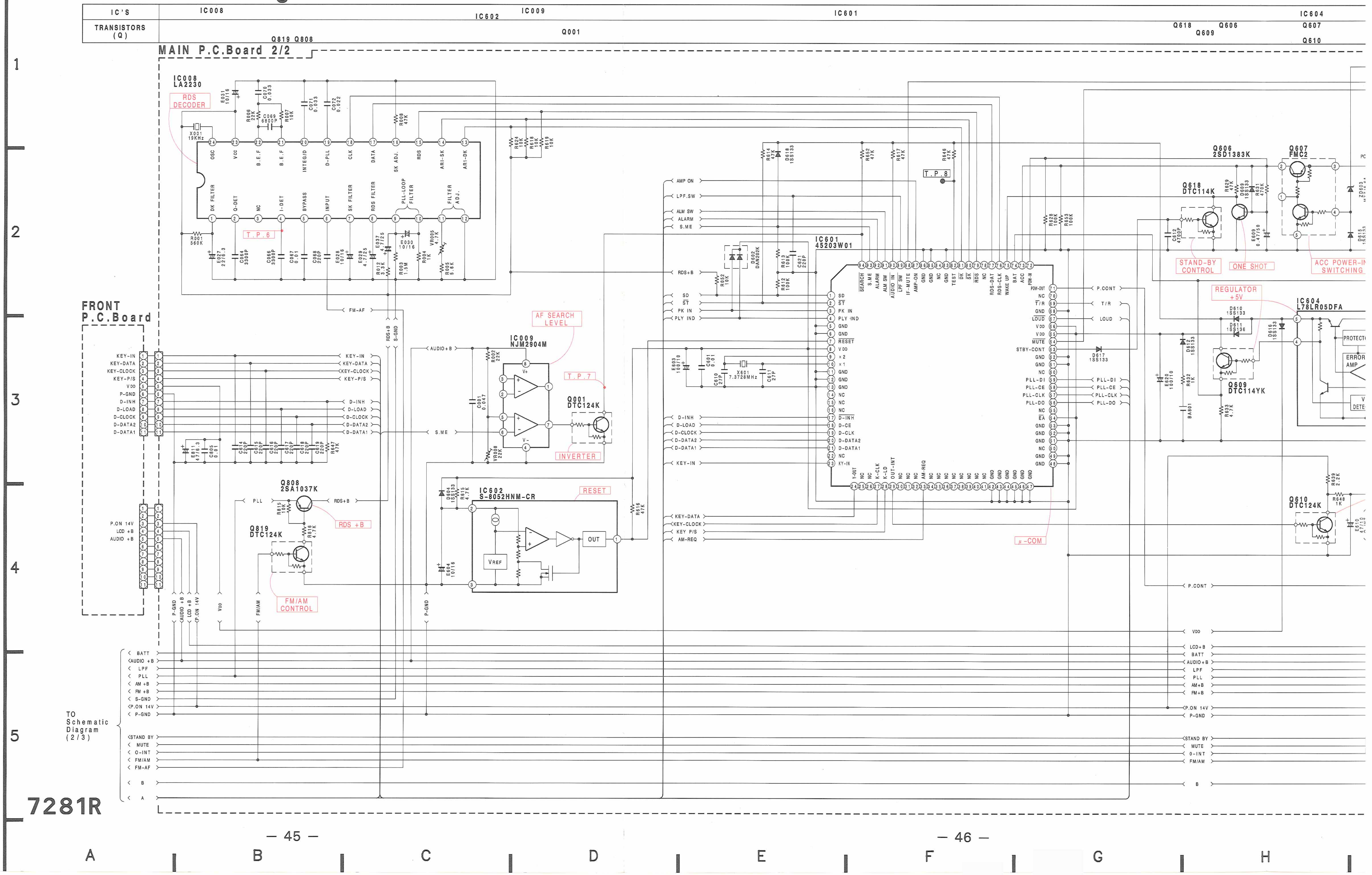
△: Serial Numbers after No.11011001M model only.

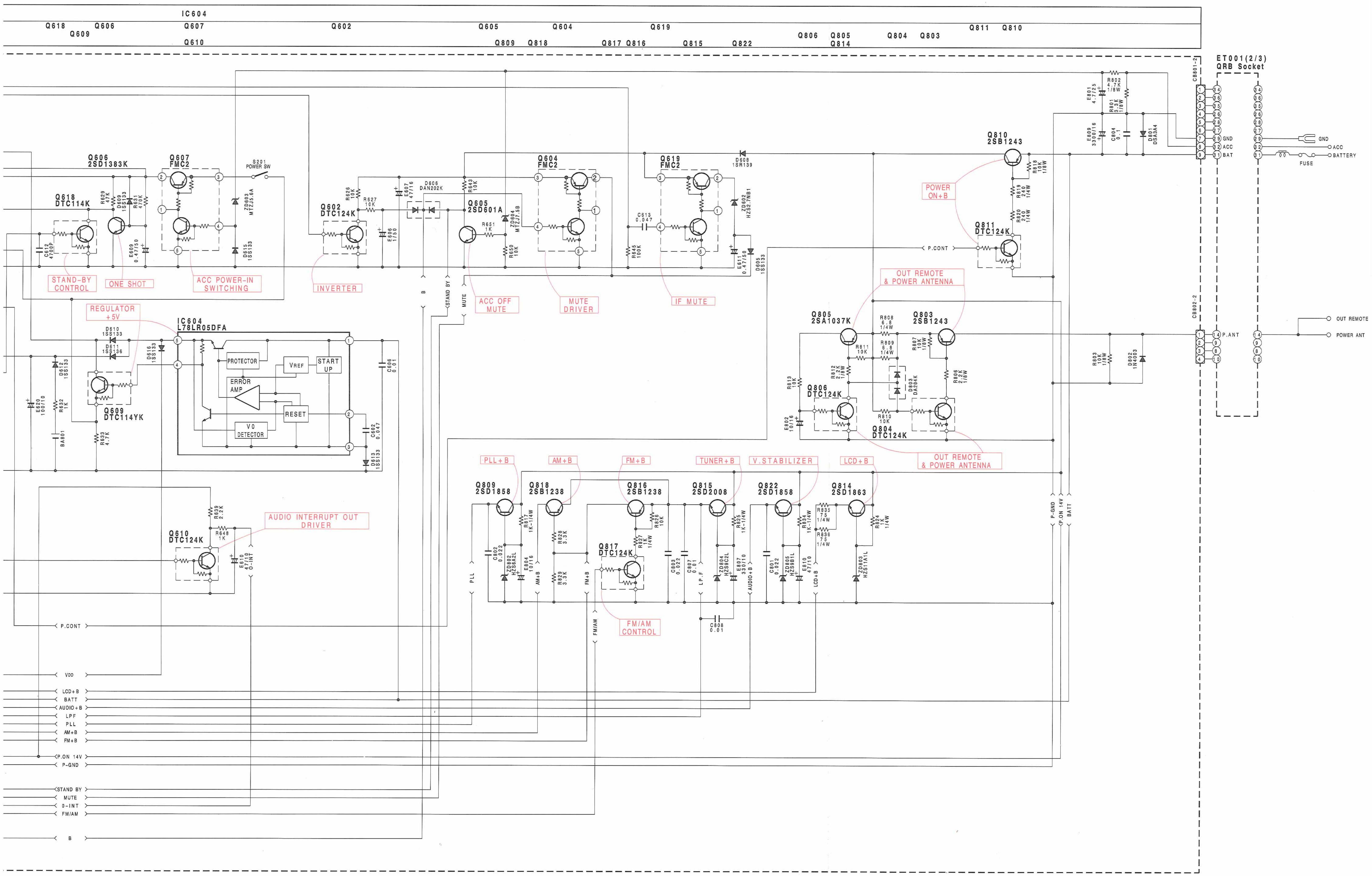
Others: Common

7281R


IC006 (1/2)
IC202
IC201
IC204
IC203
Q022
Q203
Q204
Q501
Q502
Q213
Q207
Q214
Q209 Q210
Q202 Q201
Q615
Q211 Q212
Front P.C Board
MULTIPASS DETECTOR
BLEND HI-CUT CONTROL
IC006 (1/2) NJM2904M
Q022 DTC124K
IC201 BA4558FH
AMP
IC202 BU4066BF
TAPE/RADIO SWITCHING
Q203 FMG1
FM LEVEL SWITCHING
Q204 DTC124K
FM/AM SIGNAL SWITCHING
Q501 FMG1
TAPE/RADIO SWITCH
Q502 DTC124K
ALARM SWITCH
ALM SW
ALARM
Q207 FMG4
LOUDNESS
LOUD
MUTE
Q209 DTC343T
Q210 DTC343T
IC203 BA4558FH
PRE AMP
Q211 DTC343T
Q212 DTC343T
ET001 (1/3) QRB Socket
PRE-LCH
S-GND
PRE-RCH
L-ch
R-ch
LINE OUT REAR
Q213 DTC343T
Q214 DTC343T
Q202 DTC343T
Q201 DTC343T
IC204 TA8221H
POWER AMP
PRE AMP
FLAT AMP
-PROTECTOR- LOAD DUMP THERMAL SHUT DOWN SHORT CIRCUIT
STAND BY SW
Q615 DTC124K
STAND-BY CONTROL
AMP ON
GT MUTE
O-INT
T/R
PLL
RR+
FR+
R-COMMON
RL+
FL+
L-COMMON
SPEAKER RIGHT REAR
SPEAKER RIGHT FRONT
SPEAKER RIGHT ⊖
SPEAKER LEFT REAR
SPEAKER LEFT FRONT
SPEAKER LEFT ⊖
AUDIO+B
FM+B
BATT
S-GND
P-GND
MUTE
LPF
PLL
AM+B
FM+B
S-GND
P.ON 14V
P-GND
BATT
AUDIO+B
STAND BY
MUTE
O-INT
FM/AM
FM-AF
B
A
TO Schematic Diagram (3/3)
1/2 Vcc
R-IN
L-IN
S-GND
R-OUT
L-OUT
H
I
J
K
L
M
N
O

Schematic Diagram (3/3)


IC'S
IC008
IC602
IC009
IC601
IC604
TRANSISTORS (Q)
Q819 Q808
Q001
Q618
Q609
Q606
Q607
Q610
MAIN P.C.Board 2/2
IC008 LA2230
RDS DECODER
X001 19KHz
OSC
VCC
B.E.F
INTEG/D
D-PLL
CLK
DATA
SK ADJ.
RDS
ARI-SK
ARI-DK
DK FILTER
Q-DET
NC
I-DET
BYPASS
INPUT
SK FILTER
RDS FILTER
PLL-LOOP FILTER
FILTER ADJ.
T.P.6
FM-AF
RDS+B
S-GND
FRONT P.C.Board
KEY-IN
KEY-DATA
KEY-CLOCK
KEY-P/S
VDD
P-GND
D-INH
D-LOAD
D-CLOCK
D-DATA2
D-DATA1
P.ON 14V
LCD +B
AUDIO +B
AF SEARCH LEVEL
IC009 NJM2904M
AUDIO+B
S.ME
T.P.7
Q001 DTC124K
INVERTER
Q808 2SA1037K
RDS +B
PLL
Q819 DTC124K
FM/AM CONTROL
IC602 S-8052HNM-CR
RESET
VREF
OUT
AMP ON
LPF.SW
ALM SW
ALARM
S.ME
SD
ST
PK IN
PLY IND
IC601 45203W01
X601 7.3728MHz
T.P.8
SEARCH
RESET
x 2
x 1
P.CONT
T/R
LOUD
STBY-CONT
PLL-DI
PLL-CE
PLL-CLK
PLL-DO
KY-IN
AM-REQ
KEY-DATA
KEY-CLOCK
KEY P/S
μ-COM
Q606 2SD1383K
Q607 FMC2
Q618 DTC114K
STAND-BY CONTROL
ONE SHOT
ACC POWER-IN SWITCHING
REGULATOR +5V
IC604 L78LR05DFA
Q609 DTC114YK
PROTECT
ERROR AMP
Q610 DTC124K
BATT
LPF
AM +B
FM +B
STAND BY
MUTE
O-INT
FM/AM
FM-AF
B
A
TO Schematic Diagram (2/3)
7281R
A
B
C
D
E
F
G
H
1
2
3
4
5


IC604
Q618 Q606 Q607 Q602 Q605 Q604 Q619 Q806 Q805 Q804 Q803 Q811 Q810
Q609 Q610 Q809 Q818 Q817 Q816 Q815 Q822 Q814
Q606 2SD1383K
Q607 FMC2
S201 POWER SW
Q618 DTC114K
Q602 DTC124K
Q605 2SD601A
Q604 FMC2
Q619 FMC2
D606 DAN202K
D608 1SR139
Q810 2SB1243
Q811 DTC124K
P.CONT
POWER ON+B
STAND-BY CONTROL
ONE SHOT
ACC POWER-IN SWITCHING
INVERTER
ACC OFF MUTE
MUTE DRIVER
IF MUTE
REGULATOR +5V
IC604 L78LR05DFA
PROTECTOR
VREF
START UP
ERROR AMP
RESET
VO DETECTOR
Q609 DTC114YK
OUT REMOTE & POWER ANTENNA
Q805 2SA1037K
Q803 2SB1243
Q806 DTC124K
Q804 DTC124K
ET001(2/3) QRB Socket
CB801-2
CB802-2
GND
ACC
BAT
BATTERY
FUSE
P.ANT
OUT REMOTE
POWER ANT
PLL+B
AM+B
FM+B
TUNER+B
V.STABILIZER
LCD+B
Q809 2SD1858
Q818 2SB1238
Q816 2SB1238
Q815 2SD2008
Q822 2SD1858
Q814 2SD1863
Q817 DTC124K
Q610 DTC124K
AUDIO INTERRUPT OUT DRIVER
FM/AM CONTROL
P-GND
P.ON 14V
BATT
VDD
LCD+B
BATT
AUDIO+B
LPF
PLL
AM+B
FM+B
P.ON 14V
P-GND
STAND BY
MUTE
D-INT
FM/AM
B

Electrical Parts List

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
Capacitor : μF = microfarads, pF = picofarads

Abbreviations

RES. =	Resistor	CAP. =	Capacitor
C.F. =	Carbon Film	ELY. =	Electrolytic
M.F. =	Metal Film	CER. =	Ceramic
M.O. =	Metal Oxide Film	MYL. =	Mylar
M.P. =	Metal Plate	TAN. =	Tantalum
TR. =	Transistor	POLY. =	Polystyrol
TRANS. =	Transformer	PP. =	Polypropylene
CP. =	Chip	PLT. =	Polyethylene
		PF. =	Polyester Film

Main P . C . Board

IC's

	Symbol No.	Part No.	Description
	IC003	51T94316F02	AN7465S
	IC004	51T68999F03	BU4066BF
	IC005	51T35504W02	LC7219
	IC006	51T93333F01	NJM2904M
	IC008	51T35502W02	LA2230
	IC009	51T93333F01	NJM2904M
	IC201	51T65379F02	BA4558FH
	IC202	51T68999F03	BU4066BF
	IC203	51T65379F02	BA4558FH
	IC204	51T25614W01	TA8221H
	IC601	51T45203W01	45203W01
	IC602	51T95014F13	S-8052HNM-CR
	IC604	51T15268W03	L78LR05DFA

Transistors

	Symbol No.	Part No.	Description
	Q001	48T62967F03	CP., DTC124K
	Q010	48T62967F09	CP., DTC114TK
	Q011	48T62966F03	CP., DTA124
	Q012	48T73888F12	CP., FMC2
	Q014	48T62967F03	CP., DTC124K
	Q015	48T90181F05	2SD1993
	Q016	48T90181F05	2SD1993
	Q017	48T90181F05	2SD1993
	Q018	48T90181F05	2SD1993
	Q019	48T62967F03	CP., DTC124K
	Q020	48T73888F08	CP., FMG1
	Q021	48T73888F08	CP., FMG1
	Q022	48T62967F03	CP., DTC124K
	Q023	48T62966F03	CP., DTA124
△	Q025	48T63417F01	CP., 2SC2412K
△	Q026	48T63420F03	CP., 2SA1037K
△	Q027	48T62966F22	CP., DTA144TK
	Q201	48T62967F33	CP., DTC343T
	Q202	48T62967F33	CP., DTC343T
	Q203	48T73888F08	CP., FMG1
	Q204	48T62967F03	CP., DTC124K
	Q207	48T73888F10	CP., FMG4
	Q209	48T62967F33	CP., DTC343T
	Q210	48T62967F33	CP., DTC343T
	Q211	48T62967F33	CP., DTC343T
	Q212	48T62967F33	CP., DTC343T
	Q213	48T62967F33	CP., DTC343T
	Q214	48T62967F33	CP., DTC343T
	Q501	48T73888F08	CP., FMG1
	Q502	48T62967F03	CP., DTC124K
	Q602	48T62967F03	CP., DTC124K
	Q604	48T73888F12	CP., FMC2
	Q605	48T52438F03	CP., 2SD601A
	Q606	48T81552F01	CP., 2SD1383K
	Q607	48T73888F12	CP., FMC2
	Q609	48T62967F06	CP., DTC114YK
	Q610	48T62967F03	CP., DTC124K
	Q615	48T62967F03	CP., DTC124K
	Q618	48T62967F02	CP., DTC114K
	Q619	48T73888F12	CP., FMC2
	Q803	48T84366F01	2SB1243
	Q804	48T62967F03	CP., DTC124K
	Q805	48T63420F03	CP., 2SA1037K
	Q806	48T62967F03	CP., DTC124K
	Q808	48T63420F03	CP., 2SA1037K
	Q809	48T83415F03	2SD1858
	Q810	48T84366F01	2SB1243
	Q811	48T62967F03	CP., DTC124K
	Q814	48T83617F01	2SD1863
	Q815	48T15289W01	2SD2008
	Q816	48T84234F03	2SB1238
	Q817	48T62967F03	CP., DTC124K
	Q818	48T84234F03	2SB1238
	Q819	48T62967F03	CP., DTC124K
	Q822	48T83415F03	2SD1858

Diodes

Symbol No.	Part No.	Description
D005	48T63462F01	CP., DAN202K
D006	48T68828F01	1SS133
D201	48T68828F01	1SS133
D202	48T68828F01	1SS133
D203	48T25664W01	Schottky, RB100A

Notes : ○ : Serial Number befor No. 11010500 Model Only,
△ : Serial Number after No. 11011001M Model Only, Others : Common.

Symbol No.	Part No.	Description
D204	48T25664W01	Schottky, RB100A
D601	48T68828F01	1SS133
D602	48T63462F01	CP., DAN202K
D603	48T63462F01	CP., DAN202K
D604	48T68828F01	1SS133
D605	48T68828F01	1SS133
D606	48T63462F01	CP., DAN202K
D608	48T16313W01	1SR139
D609	48T68828F01	1SS133
D610	48T68828F01	1SS133
D611	48T70933F01	1SS136
D612	48T68828F01	1SS133
D613	48T68828F01	1SS133
D615	48T68828F01	1SS133
D616	48T70933F01	1SS136
D617	48T68828F01	1SS133
D618	48T68828F01	1SS133
D801	48T68580F02	DSA3A4
D802	48S40477U01	1N4003
D803	48T64134F01	CP., DA204K
ZD601	48T26033W26	Zener, MTZJ5.6A
ZD602	48T90517F07	Zener, HZS2.7NB1
ZD603	48T26033W26	Zener, MTZJ5.6A
ZD604	48T26033W36	Zener, MTZJ7.5B
ZD802	48T83128F02	Zener, HZS6A2L
ZD803	48T83128F28	Zener, HZS11A1L
ZD804	48T83128F26	Zener, HZS9C2L
ZD805	48T83128F22	Zener, HZS9B1L

Crystals / Coil

Symbol No.	Part No.	Description
X001	91T68469F04	CER., Lock 19KHz
X002	91T25773W43	7.2MHz
X601	91T25773W44	7.3728MHz
△ L001	24T50508F46	Coil, Inductor 1mH

Capacitors

Symbol No.	Part No.	Description	
C001	08T15399W03	CP.,	0.047μF
E011	23S61523F25	ELY.,	0.1μF / 50V
E012	23S61523F11	ELY.,	47μF / 10V
E013	23S61523F25	ELY.,	0.1μF / 50V
C014	08S65128F81	CP.,	0.039μF
E014	23S61523F17	ELY.,	4.7μF / 25V
C015	08S65128F67	CP.,	6800pF
E015	23S61523F26	ELY.,	0.22μF / 50V
E016	23S61523F25	ELY.,	0.1μF / 50V
E017	23S61523F29	ELY.,	1μF / 50V
E021	23S61523F29	ELY.,	1μF / 50V
C022	23T82372F19	ELY., (B.P)	2.2μF / 50V
E023	23S61523F25	ELY.,	0.1μF / 50V
E024	23S61523F05	ELY.,	22μF / 6.3V
E025	23S61523F29	ELY.,	1μF / 50V
E026	23S61523F12	ELY.,	10μF / 16V
E027	23S61523F05	ELY.,	22μF / 6.3V
E028	23S61523F12	ELY.,	10μF / 16V
E029	23S61523F17	ELY.,	4.7μF / 25V
E030	23S61523F12	ELY.,	10μF / 16V
C031	08T15399W03	CP.,	0.047μF
E031	23S61523F12	ELY.,	10μF / 16V
C032	08S65128F69	CP.,	0.01μF
△ E032	23S61523F29	ELY.,	1μF / 50V
C033	08T15399W03	CP.,	0.047μF
C035	08S65128F63	CP.,	3300pF
C036	08S65128F69	CP.,	0.01μF
E036	23S61523F28	ELY.,	0.47μF / 50V
C037	08S65128F67	CP.,	6800pF
E037	23S61523F17	ELY.,	4.7μF / 25V
C038	08S65128F51	CP.,	470pF
C039	08S65128F69	CP.,	0.01μF
C040	08T35388W30	PP.,	390pF
C041	08T15399W04	CP.,	0.027μF
C042	08T15399W04	CP.,	0.027μF
C044	08S65128F69	CP.,	0.01μF
C045	08T90316F29	TF,	0.1μF
C050	08S65128F78	CP.,	0.022μF
C051	08S65128F69	CP.,	0.01μF
C052	08S65128F61	CP.,	2200pF
C053	08T90316F17	TF,	0.01μF
C054	08S65128F69	CP.,	0.01μF
C056	08T15399W02	CP.,	0.033μF
C057	08T15399W02	CP.,	0.033μF
C058	08T15399W02	CP.,	0.033μF
C059	08S65128F69	CP.,	0.01μF
C060	08S65128F21	CP.,	27pF
C061	08S65128F21	CP.,	27pF
C062	08S65128F69	CP.,	0.01μF
C063	08S65128F78	CP.,	0.022μF
C064	08S65128F63	CP.,	3300pF
C066	08S65128F63	CP.,	3300pF
C067	08S65128F69	CP.,	0.01μF
C068	08S65128F43	CP.,	220pF
C069	08S65128F67	CP.,	6800pF
C070	08T15399W02	CP.,	0.033μF
C071	08T15399W02	CP.,	0.033μF
C072	08S65128F78	CP.,	0.022μF

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	Symbol No.	Part No.	Description
△	C078	08S65128F69	CP., 0.01μF
△	C079	08S65128F69	CP., 0.01μF
△	C080	08S65128F69	CP., 0.01μF
△	C081	08S65128F61	CP., 2200pF
	C201	08T90316F23	TF, 0.033μF
	C202	08T90316F23	TF, 0.033μF
	C203	08S65128F57	CP., 1000pF
	E203	23S61523F31	ELY., 3.3μF / 50V
	C204	08S65128F57	CP., 1000pF
	E204	23S61523F12	ELY., 10μF / 16V
	C205	08T90316F31	TF, 0.15μF
	C206	08T90316F31	TF, 0.15μF
	C207	08T90316F31	TF, 0.15μF
	E207	23S61523F30	ELY., 2.2μF / 50V
	C208	08T90316F31	TF, 0.15μF
	E208	23S61523F30	ELY., 2.2μF / 50V
	E211	23S61523F12	ELY., 10μF / 16V
	E215	23S61523F29	ELY., 1μF / 50V
	E216	23S61523F29	ELY., 1μF / 50V
	E217	23S61523F30	ELY., 2.2μF / 50V
	E218	23S61523F30	ELY., 2.2μF / 50V
	E219	23S61523F12	ELY., 10μF / 16V
	E220	23S61523F34	ELY., 100μF / 10V
	E221	23S57422F08	ELY., 4.7μF / 25V
	E222	23S61523F17	ELY., 4.7μF / 25V
	E223	23S61523F29	ELY., 1μF / 50V
	E224	23S61523F29	ELY., 1μF / 50V
	E225	23T25057W05	ELY., 10μF / 16V
	E226	23T25057W05	ELY., 10μF / 16V
	E227	23T94181F40	ELY., 220μF / 10V
	E228	23S61523F12	ELY., 10μF / 16V
	E270	23S61523F34	ELY., 100μF / 10V
	C501	08T15399W03	CP., 0.047μF
	C601	08S65128F69	CP., 0.01μF
	E601	23S61523F12	ELY., 10μF / 16V
	C602	08T15399W03	CP., 0.047μF
	E602	23S61523F12	ELY., 10μF / 16V
	E603	23S61523F34	ELY., 100μF / 10V
	E604	23S61523F12	ELY., 10μF / 16V
	C606	08S65128F69	CP., 0.01μF
	E606	23S61523F29	ELY., 1μF / 50V
	E607	23S61523F15	ELY., 47μF / 16V
	E609	23S61523F28	ELY., 0.47μF / 50V
	C610	08S65128F21	CP., 27pF
	E610	23S61523F11	ELY., 47μF / 10V
	C611	08S65128F21	CP., 27pF
	E611	23S61523F28	ELY., 0.47μF / 50V
	C612	08S65128F65	CP., 4700pF
	C613	08T15399W03	CP., 0.047μF
	C614	08S65128F43	CP., 220pF
	C615	08S65128F43	CP., 220pF

Symbol No.	Part No.	Description
C616	08S65128F43	CP., 220pF
C617	08S65128F43	CP., 220pF
C618	08S65128F43	CP., 220pF
C619	08S65128F43	CP., 220pF
E620	23S61523F34	ELY., 100μF / 10V
C621	08S65128F43	CP., 220pF
C622	08S65128F43	CP., 220pF
C623	08S65128F43	CP., 220pF
C624	08S65128F43	CP., 220pF
C801	08S65128F78	CP., 0.022μF
E801	23S61523F17	ELY., 4.7μF / 25V
C802	08S65128F78	CP., 0.022μF
E802	23S61523F12	ELY., 10μF / 16V
C803	08S65128F78	CP., 0.022μF
C804	08S65128F76	CP., 0.1μF
E804	23S61523F12	ELY., 10μF / 16V
C805	08S65128F69	CP., 0.01μF
C806	08S65128F69	CP., 0.01μF
C807	08S65128F69	CP., 0.01μF
E807	23T91061F19	ELY., 330μF / 10V
C808	08S65480F61	CER., 0.01μF
E809	23T16360W41	ELY., 3300μF / 16V
E810	23S61523F11	ELY., 47μF / 10V
E811	23S61523F07	ELY., 47μF / 6.3V
E812	23S57422F09	ELY., 10μF / 16V
E813	23S61523F12	ELY., 10μF / 16V
Resistors (All resistors are chip 1/10W ± 5% unless otherwise noted.)		
R001	06S64996F20	560K ohm
R002	06S64995F85	22K ohm
R003	06S64996F28	1.5M ohm
R004	06S64995F53	1K ohm
R005	06S64995F71	5.6K ohm
R006	06S64995F85	22K ohm
R007	06S64995F77	10K ohm
R008	06S64995F93	47K ohm
R012	06S64995F65	3.3K ohm
R018	06S64996F04	120K ohm
R031	06S64995F57	1.5K ohm
R032	06S64996F26	1M ohm
R033	06S64995F69	4.7K ohm
R034	06S64995F65	3.3K ohm
R035	06S64995F81	15K ohm
R036	06S64995F81	15K ohm
R037	06S64995F77	10K ohm
R038	06S64995F67	3.9K ohm
R039	06S64995F67	3.9K ohm
R040	06S64995F95	56K ohm

Notes : ○ : Serial Number befor No. 11010500 Model Only,
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Symbol No.		Part No.	Description
	R041	06S64996F02	100K ohm
	R042	06S64995F13	22 ohm
	R043	06S64996F18	470K ohm
	R044	06S64995F79	12K ohm
	R045	06S64995F65	3.3K ohm
	R049	06S64995F53	1K ohm
	R051	06S64995F77	10K ohm
	R052	06S64995F77	10K ohm
	R053	06S64995F77	10K ohm
	R054	06S64995F53	1K ohm
	R055	06S64995F37	220 ohm
	R056	06S64995F85	22K ohm
	R057	06S64995F71	5.6K ohm
	R058	06S64995F47	560 ohm
	R059	06S64995F65	3.3K ohm
	R060	06S64995F53	1K ohm
	R061	06S64995F65	3.3K ohm
	R062	06S64995F05	10 ohm
	R063	06S64995F53	1K ohm
	R064	06S64995F75	8.2K ohm
	R065	06S64995F71	5.6K ohm
	R066	06S64995F77	10K ohm
	R067	06S64995F69	4.7K ohm
	R068	06S64995F69	4.7K ohm
	R069	06S64995F61	2.2K ohm
	R070	06S64995F93	47K ohm
	R071	06S64995F61	2.2K ohm
	R072	06S64995F77	10K ohm
	R073	06S64995F81	15K ohm
	R074	06S64996F02	100K ohm
	R075	06S64995F41	330 ohm
	R076	06S64996F14	330K ohm
	R077	06S64996F20	560K ohm
	R078	06S64996F26	1M ohm
	R079	06S64996F02	100K ohm
	R080	06S64996F02	100K ohm
	R081	06S64995F85	22K ohm
	R082	06S64995F77	10K ohm
	R087	06S64995F49	680 ohm
	R088	06S64995F53	1K ohm
	R089	06S64995F93	47K ohm
△	R090	06S64995F91	39K ohm
△	R091	06S64996F04	120K ohm
△	R092	06S64995F21	47 ohm
△	R093	06S64996F02	100K ohm
△	R094	06S64996F02	100K ohm
△	R095	06S64995F75	8.2K ohm
	R096	06S64995F85	22K ohm
	R097	06S64995F77	10K ohm
	R201	06S64995F93	47K ohm
	R208	06S64995F53	1K ohm

Symbol No.	Part No.	Description
R209	06S64995F53	1K ohm
R210	06S64995F37	220 ohm
R211	06S64995F37	220 ohm
R212	06S64995F71	5.6K ohm
R213	06S64995F71	5.6K ohm
R216	06S64995F85	22K ohm
R217	06S64995F85	22K ohm
R218	06S64995F71	5.6K ohm
R219	06S64995F71	5.6K ohm
R220	06S64995F85	22K ohm
R221	06S64995F85	22K ohm
R222	06S64995F53	1K ohm
R223	06S64995F53	1K ohm
R224	06S64995F37	220 ohm
R225	06S64995F37	220 ohm
R226	06S64995F37	220 ohm
R227	06S64995F37	220 ohm
R228	06S64995F77	10K ohm
R229	06S64995F77	10K ohm
R230	06S64995F53	1K ohm
R231	06S64995F53	1K ohm
R232	06S64995F55	1.2K ohm
R233	06S64995F55	1.2K ohm
R234	06T70072F78	2.2 ohm 1/4W
R235	06T70072F78	2.2 ohm 1/4W
R236	06T70072F78	2.2 ohm 1/4W
R237	06T70072F78	2.2 ohm 1/4W
R238	06S64995F61	2.2K ohm
R239	06S64995F61	2.2K ohm
R240	06S64995F63	2.7K ohm
R241	06S64995F63	2.7K ohm
R244	06S64995F77	10K ohm
R245	06S64995F77	10K ohm
R251	06S64995F77	10K ohm
R252	06S64995F77	10K ohm
R253	06S64995F77	10K ohm
R254	06S64995F77	10K ohm
R259	06S64995F85	22K ohm
R260	06S64995F85	22K ohm
R261	06S64995F57	1.5K ohm
R262	06S64995F57	1.5K ohm
R263	06S64995F85	22K ohm
R264	06S64995F85	22K ohm
R270	06S64995F53	1K ohm
R271	06S64995F53	1K ohm
R501	06S64995F69	4.7K ohm
R502	06S64995F61	2.2K ohm
R503	06S64996F26	1M ohm
R504	06S64996F26	1M ohm
R505	06S64996F02	100K ohm
R506	06S64995F61	2.2K ohm

Notes : ○ : Serial Number befor No. 11010500 Model Only,
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Symbol No.	Part No.	Description
R602	06S64995F85	22K ohm
R603	06S64996F02	100K ohm
R604	06S64996F02	100K ohm
R605	06S64995F98	75K ohm
R607	06S64996F02	100K ohm
R608	06S64996F02	100K ohm
R609	06S64995F89	33K ohm
R610	06S64995F89	33K ohm
R612	06S64996F02	100K ohm
R613	06S64996F02	100K ohm
R614	06S64995F93	47K ohm
R615	06S64995F69	4.7K ohm
R616	06S64995F93	47K ohm
R617	06S64995F93	47K ohm
R618	06S64995F77	10K ohm
R619	06S64995F77	10K ohm
R624	06S64995F77	10K ohm
R626	06S64995F77	10K ohm
R627	06S64995F77	10K ohm
R628	06S64996F02	100K ohm
R629	06S64995F93	47K ohm
R631	06S64996F18	470K ohm
R632	06S64995F53	1K ohm
R633	06S64995F69	4.7K ohm
R639	06S53330F61	2.2K ohm 1/8W
R643	06S64995F77	10K ohm
R644	06S64995F77	10K ohm
R645	06S64996F02	100K ohm
R646	06S64995F93	47K ohm
R647	06S64995F93	47K ohm
R648	06S64995F53	1K ohm
R650	06S64995F77	10K ohm
R651	06S64995F53	1K ohm
R652	06S64995F93	47K ohm
R653	06S64996F02	100K ohm
R801	06S53330F65	3.3K ohm 1/8W
R802	06S53330F69	4.7K ohm 1/8W
R803	06S53330F77	10K ohm 1/8W
R806	06S53330F61	2.2K ohm 1/8W
R807	06S53330F77	10K ohm 1/8W
R808	06T70072F03	6.8 ohm 1/4W
R809	06T70072F03	6.8 ohm 1/4W
R810	06S64995F77	10K ohm
R811	06S64995F77	10K ohm
R812	06S53330F61	2.2K ohm 1/8W
R813	06S64995F77	10K ohm
R815	06S64995F77	10K ohm
R816	06S64995F69	4.7K ohm
R817	06T70072F53	1K ohm 1/4W
R818	06S53330F77	10K ohm 1/8W
R819	06T70072F38	240 ohm 1/4W
R820	06T70072F38	240 ohm 1/4W

Symbol No.	Part No.	Description
R824	06T70072F53	1K ohm 1/4W
R825	06T70072F53	1K ohm 1/4W
R826	06S64995F77	10K ohm
R827	06T70072F53	1K ohm 1/4W
R828	06S64995F65	3.3K ohm
R829	06S64995F65	3.3K ohm
R834	06T70072F53	1K ohm 1/4W
R835	06T70072F26	75 ohm 1/4W
R836	06T70072F26	75 ohm 1/4W
VR002	18T25530W09	Variable, 2.2K ohm
VR003	18T15805W11	Variable, 4.7K ohm
VR005	18T15805W11	Variable, 4.7K ohm
VR006	18T25530W14	Variable, 15K ohm
VR008	18T25530W15	Variable, 22K ohm

Front P. C. Board

IC's

Symbol No.	Part No.	Description
IC401	51T16618W02	MC14014BFEL
IC402	51T83905F02	LC7582E
IC403	51T83905F02	LC7582E
IC404	51T65379F02	BA4558FH

Diode

Symbol No.	Part No.	Description
D401	48T94471F01	CP., IMN10

LED's

Symbol No.	Part No.	Description
LD401	48T15700W02	MBG4868K (GRN)
LD402	48T15700W02	MBG4868K (GRN)

Switches

Symbol No.	Part No.	Description
S401	40T10876W12	Tact, SKHLAJ (UP)
S402	40T10876W12	Tact, SKHLAJ (DN)
S403	40T10876W12	Tact, SKHLAJ (BAND)
S404	40T10876W12	Tact, SKHLAJ (T. INFO)
S405	40T10876W12	Tact, SKHLAJ (TUNE)

Symbol No.	Part No.	Description
S406	40T10876W12	Tact, SKHLAJ (LOUD)
S407	40T10876W12	Tact, SKHLAJ (DX)
S408	40T10876W12	Tact, SKHLAJ (A.P.I)
S409	40T10876W12	Tact, SKHLAJ (M4)
S410	40T10876W12	Tact, SKHLAJ (M6)
S411	40T10876W12	Tact, SKHLAJ (M5)
S412	40T10876W12	Tact, SKHLAJ (M1)
S413	40T10876W12	Tact, SKHLAJ (M3)
S414	40T10876W12	Tact, SKHLAJ (M2)
Lamps		
PL401	65T95083F01	6.7V-85mA
PL402	65T25170W06	6V-70mA
PL403	65T25170W06	6V-70mA
PL404	65T25170W06	6V-70mA
Capacitors		
C401	08S65128F69	CP., 0.01μF
C402	08S65128F55	CP., 680pF
C403	08S65128F69	CP., 0.01μF
C404	08S65128F55	CP., 680pF
C405	08S65128F61	CP., 2200pF
C406	08S65128F61	CP., 2200pF
C407	08S65128F56	CP., 820pF
C408	08S65128F56	CP., 820pF
C409	08T50579F04	TF, 0.018μF
C410	08T90316F20	TF, 0.018μF
C411	08S65128F19	CP., 22pF
C412	08S65128F19	CP., 22pF
Resistors (All resistors are chip 1/10W ± 5% unless otherwise noted.)		
R401	06S64995F93	47K ohm
R402	06S64995F93	47K ohm
R403	06S64995F93	47K ohm
R404	06T70072F47	560 ohm 1/4W
R405	06T70072F21	47 ohm 1/4W
R406	06T70072F21	47 ohm 1/4W
R407	06T70072F21	47 ohm 1/4W
R408	06S64995F94	51K ohm

Symbol No.	Part No.	Description
R409	06S64995F94	51K ohm
R410	06S64995F93	47K ohm
R411	06S64995F93	47K ohm
R412	06S64995F93	47K ohm
R413	06S64995F93	47K ohm
R414	06S64995F93	47K ohm
R415	06S64995F85	22K ohm
R416	06S64995F85	22K ohm
R417	06S64995F67	3.9K ohm
R418	06S64995F67	3.9K ohm
R419	06S64995F85	22K ohm
R420	06S64995F85	22K ohm
R421	06S64996F26	1M ohm
R422	06S64996F26	1M ohm
R423	06S64995F67	3.9K ohm
R424	06S64995F67	3.9K ohm
R425	06T70072F21	47 ohm 1/4W
VR401	18T15284W01	Volume, Slide (BASS)
VR402	18T15284W01	Volume, Slide (TREBLE)
GT Control P. C. Board		
IC		
IC1101	51T64606F01	TA7705F
Transistors		
Q1101	48T62967F03	CP., DTC124K
Q1102	48T62967F03	CP., DTC124K
Diodes		
D1101	48T44813F01	MA165TA
D1102	48T44813F01	MA165TA
D1104	48T81044F01	10E2

Symbol No.	Part No.	Description
Capacitors		
C1101	08S53332F33	CP., 680pF
E1101	23S61524F13	ELY., 10μF / 16V
C1102	08S53332F33	CP., 680pF
E1102	23S61524F07	ELY., 47μF / 6.3V
C1103	08S53332F33	CP., 680pF
E1103	23S61523F07	ELY., 47μF / 6.3V
C1104	08S53332F33	CP., 680pF
E1104	23S61524F32	ELY., 1μF / 50V
E1105	23S61524F32	ELY., 1μF / 50V
E1106	23S61523F17	ELY., 4.7μF / 25V
E1107	23S82482F02	ELY., 100μF/ 16V
C1108	08S53332F48	CP., 0.012μF
E1108	23S61524F14	ELY., 22μF / 16V
C1109	08S53332F48	CP., 0.012μF
E1109	23S61523F12	ELY., 10μF / 16V
C1115	08S53332F41	CP., 3300pF
C1116	08S53332F41	CP., 3300pF
Resistors (All resistors are chip 1/8W ± 5% unless otherwise noted.)		
R1101	06S53330F32	130 ohm
R1102	06S53330F32	130 ohm
R1103	06S53331F14	330K ohm
R1104	06S53331F14	330K ohm
R1105	06S53330F81	15K ohm
R1106	06S53330F81	15K ohm
R1107	06S53330F79	12K ohm
R1108	06S53330F79	12K ohm
R1110	06S53330F94	51K ohm
R1111	06S64996F02	100K ohm 1/10W
R1112	06S53330F89	33K ohm
R1113	06S53331F01	91K ohm
R1114	06S64995F85	22K ohm 1/10W
R1115	06S53330F29	100 ohm
R1123	06S53330F85	22K ohm
R1124	06S64995F53	1K ohm 1/10W
R1129	06S64995F89	33K ohm 1/10W
R1130	06S53330F89	33K ohm
R1131	06S53330F61	2.2K ohm
R1132	06S64995F93	47K ohm 1/10W
VR1101	18T60065F13	Variable, 10k ohm
VR1102	18T60065F13	Variable, 10k ohm

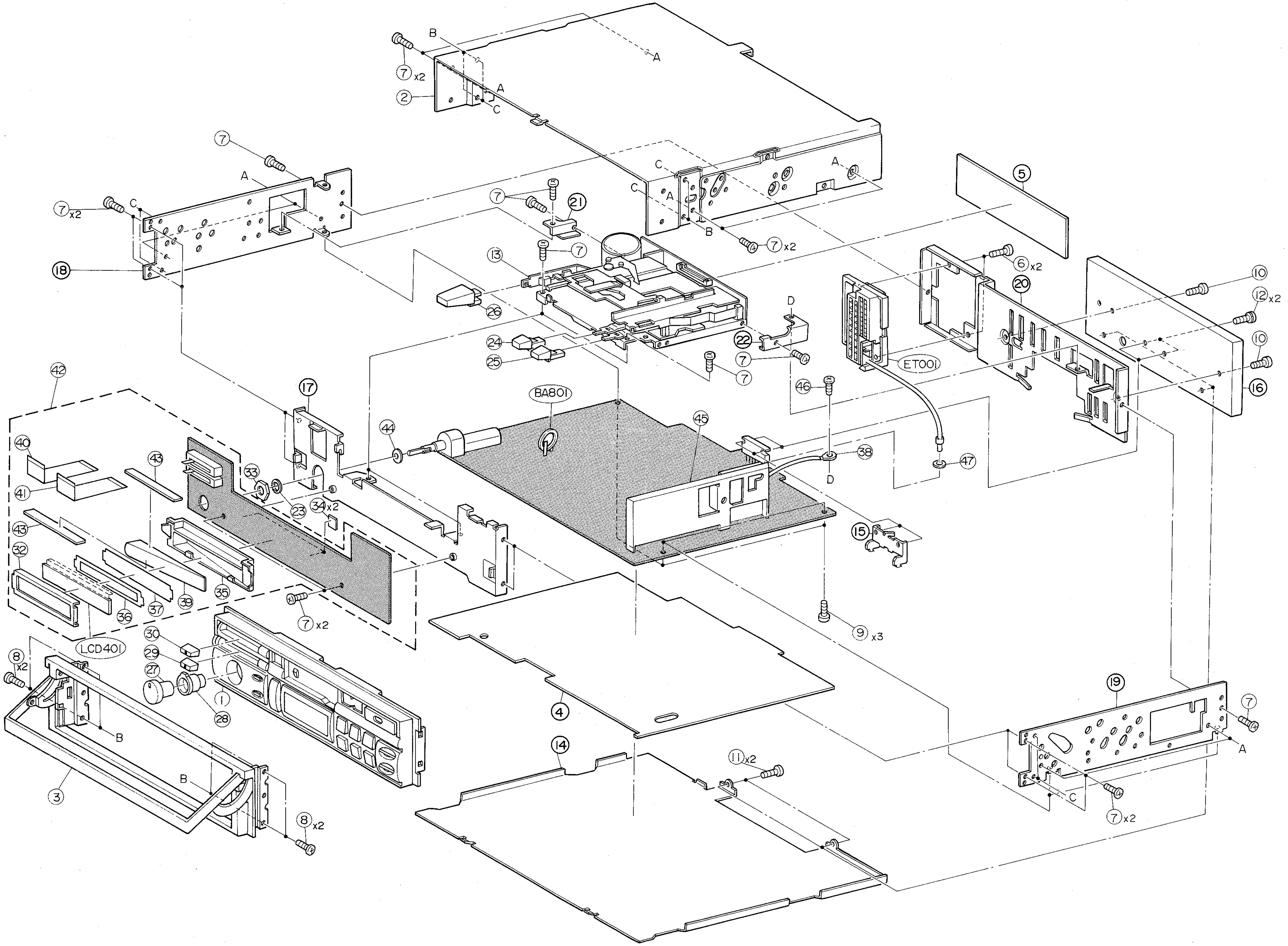
Symbol No.	Part No.	Description
Miscellaneous		
BA801	60T25650W02	Battery, LIT. CR2032-1VC1
or	60T91060F03	Battery, LIT. CR2032-V03
ET001	01T25803W14	QRB Socket
LCD401	65T35429W01	LCD Display, LTA6Q6011A
HD1101	88T15795W01	Playback Head
M1101	01V14500W41	Assy., Motor (12V-95mA)
S1101	40T52216F01	Switch, Micro (PACK-IN)
S1102	40T15222W01	Switch, Detector (F / R)
S1103	40T71025F03	Switch, Detector (METAL)
S1104	40T15222W01	Switch, Detector (MUTE)
SD1101	01T80451F01	Assy., Keep Solenoid (PLAY)
VR204 S201	18T25752W03	Volume Control (VOLUME / BALANCE / FADER / POWER)

Cabinet Assembly Parts List

Notes : ● The parts without parts list are not supplied.
● Parts marked * will need a long delivery time, or may be not supplied in some cases.

Symbol No.	Index	Part No.	Description
1	4-B	13D31279W06	Assy., Nosepiece
2	1-C	15T22325W01	Cover, Top
3	5-A	07C21606W01	Assy., Bracket Handle
6		03S52360F78	Screw, Pan (M2.6×8)
7		03S44205G07	Screw, Pan (M2.6×5)
8		03S44205G34	Screw, Pan (M2.6×5)
9	4-E	03S44205G48	Screw, Pan (M2.6×5)
10	2-G	03S82672F11	Screw, Bind (M2.6×12)
11	5-E	03S71677F10	Screw, Pan (M2.6×5)
12	2-G	03D40014G58	Screw, W/Washer (M2.6×14)
*13	2-C	81D31809W01	Cassette Deck (GT75L050)
23	3-B	04S40070G52	Washer, Flat (M9.2)
24	2-C	36T22319W01	Knob, REW
25	3-C	36T22318W01	Knob, FF
26	2-C	36T22317W01	Knob, EJECT
27	4-B	36A94114F01	Knob, Control (Front)
28	4-B	36A94115F01	Knob, Control (Back)
29	4-B	36B22527W01	Knob, Slide (A)
30	4-B	36B22527W02	Knob, Slide (B)
32	3-A	07A30046W01	Bracket, Shield
33	3-B	02S40000G15	Nut, Hex. (M9)
34	3-C	75S72374F56	Cushion, Rubber
35	4-B	15B30048W01	Case, LCD
36	4-B	26A30047W01	Reflector, Sheet
37	4-B	26A30047W02	Reflector, Sheet
38	3-E	01T16472W04	Assy., Lug Wire
39	4-B	61A21582W01	Lens, LCD
40	3-A	30T26024W05	Wire, Parallel (11P)
41	3-A	30T26024W06	Wire, Parallel (11P)
*42	3-A	01V41700W42	Assy., Front P.C.Board
43		75T35021W01	Rubber, Electric
44	3-C	04S40070G76	Washer, Flat (M9.3)
45	3-D	77C30794W01	FM / MW / LW Tuner, MB4R901B (FE001)
46	3-E	03S71677F06	Screw, Flange (M2.6×6)
47	3-F	04B41345P11	Washer, Lock (M1.2)

Exploded View (Cabinet)


1
2
3
4
5
⑦x2
B
A
②
C
A
⑦
A
⑦x2
C
⑱
⑤
C
C
A
A
B
⑦x2
⑦
㉑
⑦
⑬
⑥x2
⑳
⑩
⑫x2
㉖
D
㉒
㉔
㉕
⑦
⑦
ET001
⑩
⑯
㊻
㊷
⑰
BA801
㊺
㊹
㊵
㉝
㊸
㊳
㊼
㊶
㉓
㉞x2
D
㊸
⑮
㉜
㉟
㊱
㊲
㊴
⑦x2
⑨x3
㉚
LCD401
㉙
⑧x2
㉗
①
㉘
④
⑲
⑦
A
B
⑭
⑪x2
③
B
⑦x2
C
⑧x2
A
B
C
D
E
F
G

Packing Assembly Parts List

Symbol No.	Part No.	Description
101	56S41054W03	Carton, Packing (Individual)
102	56D21594W01	Tray, Packing (L)
103	56D21594W02	Tray, Packing (R)
104	01V34100W03	Assy., Kit Intallation
104-1	02B47353F01	Nut, Hex. (M5)
104-2	03S63857F59	Screw, Tapping (M4×15)
104-3	03A40155F05	Bolt, Hex. (M5×14)
104-4	03A40155F01	Bolt, Hex. (M5×8)
104-5	07A30081W01	Bracket, QRB (A)
104-6	07A30082W01	Bracket, QRB (B)
104-7	03S44205G34	Screw, Pan (M2.6×5)
105	07B64552F01	Bracket, Strap Receiver
106	56C40990T36	Sack, Polyethylene
107	68P32052W86	Owner's, Manual
108-1	15D21598W01	Case, Mother
108-2	03A28015W01	Screw, Special (M2.6×6.7)
108-3	01T25804W23	Assy., QRB Connector

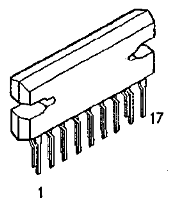
Packing Method View

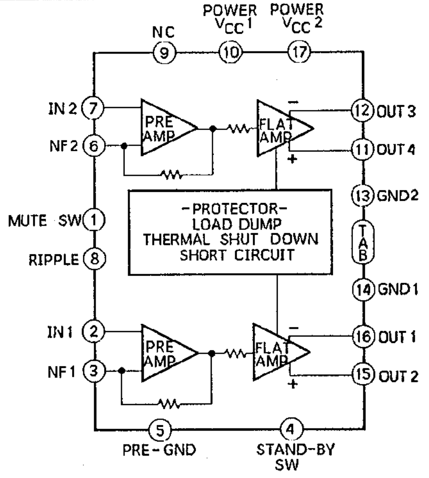
- Refer to the Service Manual 7291R (68P40493W02) for the description not mentioned in this manual.

Semi - Conductor Lead Identifications

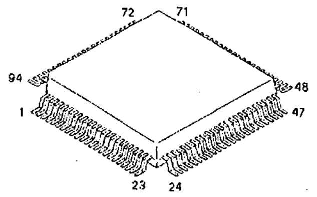
Note : The parts is not mentioned, refer to the Service Manual 7291R (68P40493W02).

TA8221H : IC204



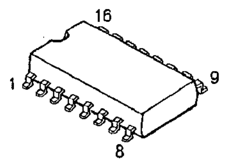

NC
POWER $V_{CC}1$
POWER $V_{CC}2$
9
10
17
IN2 7
NF2 6
PRE AMP
FLAT AMP
12 OUT3
11 OUT4
13 GND2
MUTE SW 1
RIPPLE 8
-PROTECTOR-
LOAD DUMP
THERMAL SHUT DOWN
SHORT CIRCUIT
TAB
14 GND1
IN1 2
NF1 3
PRE AMP
FLAT AMP
16 OUT1
15 OUT2
5
PRE-GND
4
STAND-BY SW

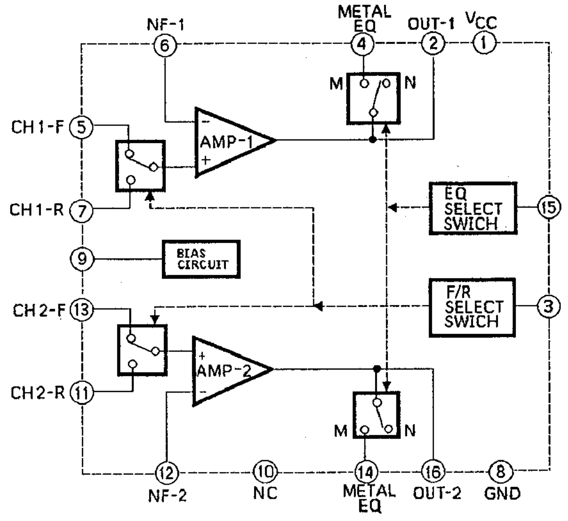
45203W01 : IC601


72
71
94
1
48
47
23
24

PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CORD ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	SD	I	23	KY-IN	I	45	GND	—	67	$\overline{\text{LOUD}}$	O	89	$\overline{\text{LPF SW}}$	O
2	$\overline{\text{ST}}$	I	24	Y-OUT	O	46	GND	—	68	GND	I	90	$\overline{\text{AUDIO IN}}$	I
3	PK IN	I	25	NC	—	47	GND	—	69	$\overline{\text{T}}$/R	O	91	ALM SW	O
4	PLY IND	I	26	NC	—	48	GND	—	70	NC	—	92	ALARM	O
5	GND	—	27	K-CLK	O	49	GND	—	71	POW-OUT	O	93	S.ME	I
6	GND	—	28	K-LD	O	50	NC	—	72	POW-IN	I	94	$\overline{\text{SEARCH}}$	I
7	$\overline{\text{RESET}}$	I	29	OUT-INT	O	51	GND	—	73	ACC	—			
8	V_{DD}	—	30	NC	—	52	GND	—	74	BAT	—			
9	X2	—	31	NC	—	53	GND	—	75	WAKE UP	I			
10	X1	—	32	NC	—	54	$\overline{\text{EA}}$	I	76	RDS-CLK	I			
11	GND	—	33	AM-REQ	O	55	NC	—	77	RDS-DAT	I			
12	GND	—	34	NC	—	56	PLL-DO	O	78	NC	—			
13	GND	—	35	NC	—	57	PLL-CLK	O	79	$\overline{\text{RDS}}$	I			
14	NC	—	36	NC	—	58	PLL-CE	O	80	$\overline{\text{SK}}$	I			
15	NC	—	37	NC	—	59	PLL-DI	I	81	$\overline{\text{DK}}$	I			
16	NC	—	38	NC	—	60	NC	—	82	TEST	I			
17	$\overline{\text{D-INH}}$	O	39	NC	—	61	GND	—	83	GND	—			
18	D-CE	O	40	NC	—	62	GND	—	84	NC	—			
19	D-CLK	O	41	NC	—	63	STBY-CONT	O	85	GND	—			
20	D-DAT2	O	42	GND	—	64	$\overline{\text{MUTE}}$	O	86	GND	—			
21	D-DAT1	O	43	GND	—	65	V_{DD}	—	87	AMP ON	O			
22	NC	—	44	GND	—	66	V_{DD}	—	88	IF-MUTE	O			

TA7705F : IC1101 (GT75L050)

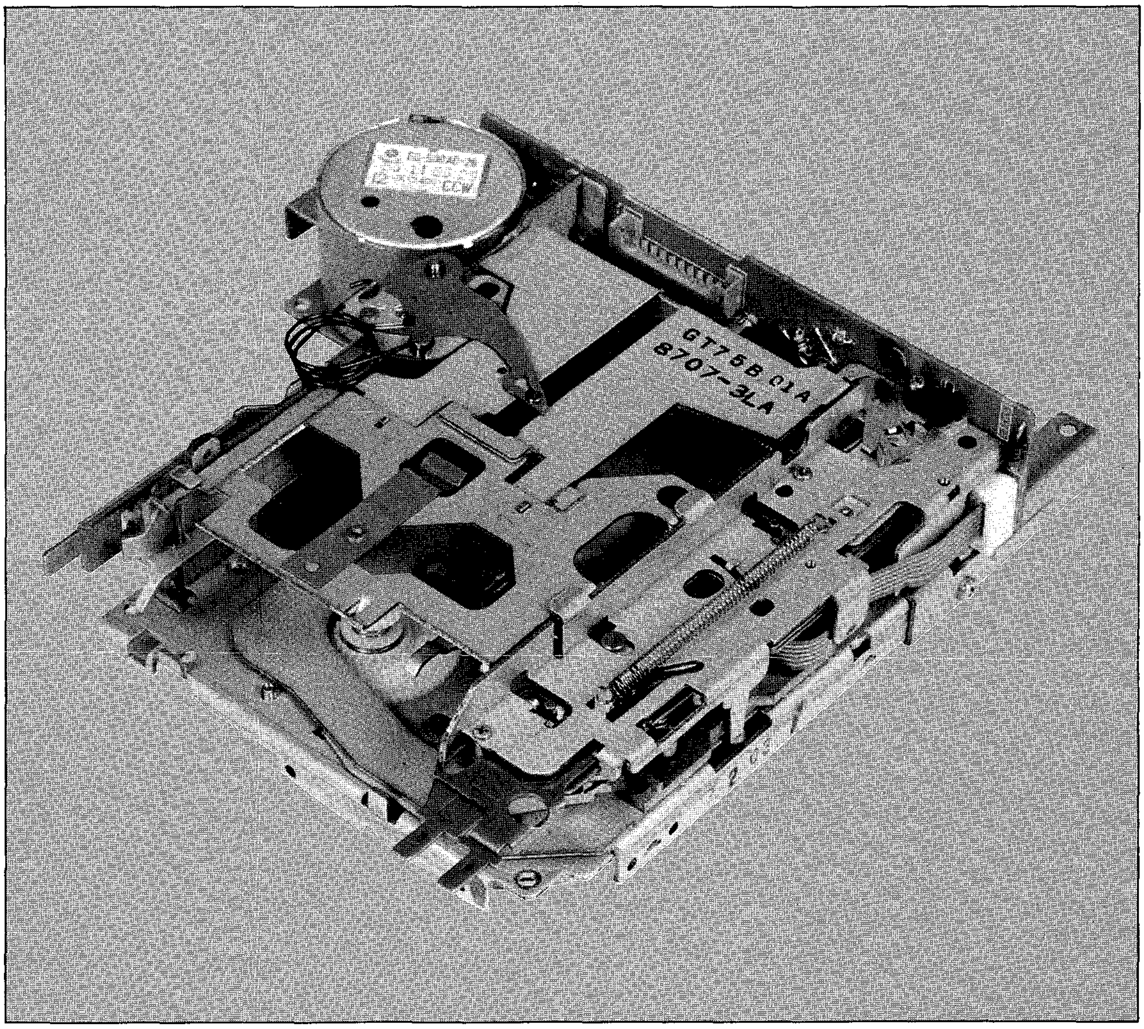



NF-1
6
METAL EQ
4
OUT-1
2
V_{CC}
1
M
N
CH1-F 5
AMP-1
CH1-R 7
EQ SELECT SWICH
15
9
BIAS CIRCUIT
CH2-F 13
F/R SELECT SWICH
3
AMP-2
CH2-R 11
M
N
12
NF-2
10
NC
14
METAL EQ
16
OUT-2
8
GND

ALPINE SERVICE MANUAL

Exploded View & Parts List For Cassette Deck Mechanism

ADDENDUM & REVISED (III)



GT75B 01A
8707-3LA

GT SERIES

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Exploded View (1／3) .... 9 to 10
Exploded View (2／3) .... 11 to 12
Parts List (2／3) .... 13 to 14
Parts List (3／3) .... 15 to 16
Exploded View (3／3) .... 17 to 18

Replacement of Mechanical Parts

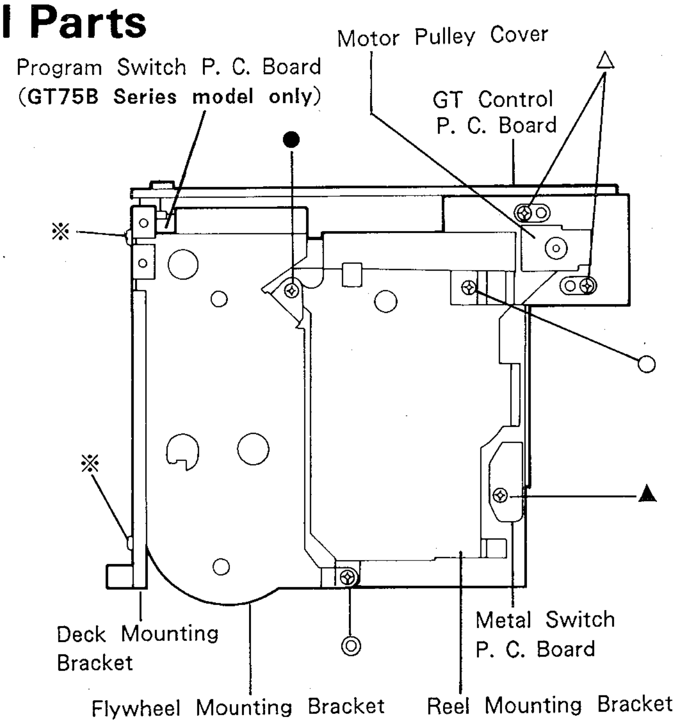

Motor Pulley Cover
Program Switch P. C. Board
(GT75B Series model only)
△
GT Control
P. C. Board
●
※
○
※
▲
Deck Mounting
Bracket
◎
Metal Switch
P. C. Board
Flywheel Mounting Bracket
Reel Mounting Bracket

Figure 1

1. Replacement of Belt

(1) Remove two screws marked "●" and "◎" as shown in Figure 1 and remove the flywheel mounting bracket.

(2) Remove one screw "○" and motor pulley cover as shown in Figure 1.

(3) Clean a good belt with alcohol and thread the belt as shown in Figure 2. Assembly the unit, performing above steps in reverse order.

(4) Confirm the tape speed and wow/flutter with the test tape (MTT-111).

2. Replacement of Motor

(1) Remove two screws marked "△" as shown in Figure 1.

(2) Remove two belts (A) and (B) as shown in Figure 2.

(3) Remove wire leads from the motor terminal and the motor will be removed.

3. Replacement of Flywheel

(1) Remove the flywheel mounting bracket and the belt (A) as shown in Figure 2.

(2) Remove the flywheel by moving it straight up.

(3) Mount a good flywheel. (In this case also insert the flywheel washer and apply a drop of "mobile 1" oil.)

(4) Mount the belt and the flywheel mounting bracket.

(5) After assembling, confirm the tape speed and wow-flutter, using a test tape (MTT-111).

Notes :

1. Take care the belt is not stained with oil.
2. When tightening screws for the flywheel bracket, apply tightening torque of 4.5kg•cm (marked "◎") and 2.5kg • cm (marked "●").

   (GT75B Series model only)

   When tightening screws for the flywheel bracket, apply tightening torque of 6kg•cm (marked "◎") and 2.3kg • cm (marked "●")

   (On GT75L010 / GT75L110 / GT75L220 / GT75L020 / GT75L02N / GT75L120 / GT75L12N models only)

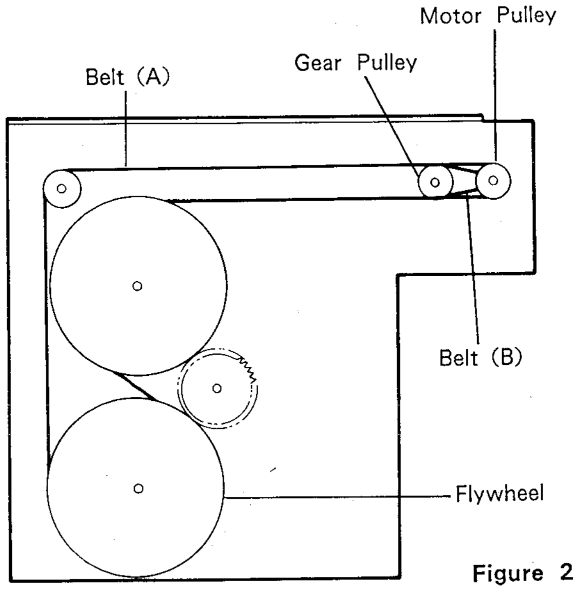

Motor Pulley
Belt (A)
Gear Pulley
Belt (B)
Flywheel

Figure 2

4. Replacement of Reels

(1) Remove two flywheels.

(2) Remove two lock washers as shown in Figure 3 and the two reels will be removed.

(3) Replace with good reels and assembly them using above steps in reverse order.

(4) After assembling, confirm the tape speed and wow-flutter using a test tape (MTT-111).

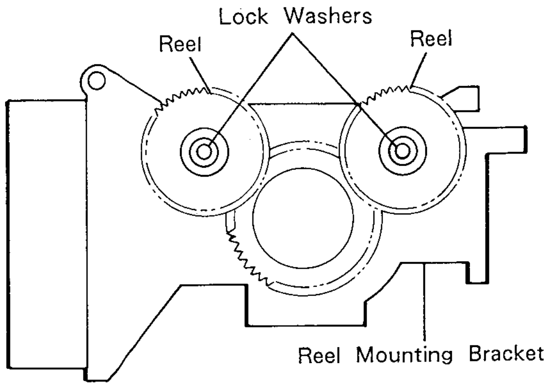

Lock Washers
Reel
Reel
Reel Mounting Bracket

Figure 3

5. Replacement of Head

(1) Remove two screws marked "※" as shown in Figure 1.
(2) Remove two screws marked "■" as shown in Figure 8.
(3) Remove two screws marked "◪" and the head flexible P. C. Board can be removed as shown in Figure 4. Then remove the P. C. Board.
(4) Replace with a good head and assembly them using above steps in reverse order.
(5) After assembling, adjust the head azimuth using the test tape (MTT-114NB). Apply the screw-lock paint on the adjusting screws.

Note : Since the flexible P. C. Board is apt to be damaged, handle it with sufficient care.

Perform the head height adjustment.

(6) Place the height adjustment gauge (M-300 or AT-500) on the head base as shown in Figures 5, 6 and 7, and adjust the gauge height so that the check bar can enter the tape head guide smoothly.
(7) When the check bar touches top or bottom guide of the tape guide, insert a spacer (of 0.1mm thickness or a polyslider washer of 0.13mm in thickness). (Or remove the spacer to adjust the height).

Note : As shown in Figure 6, if the height gauge is not available, run a tape as usual and adjust the height (head and small guide window) so that no tape curling is observed.

6. Replacement fo Pinch Rollers

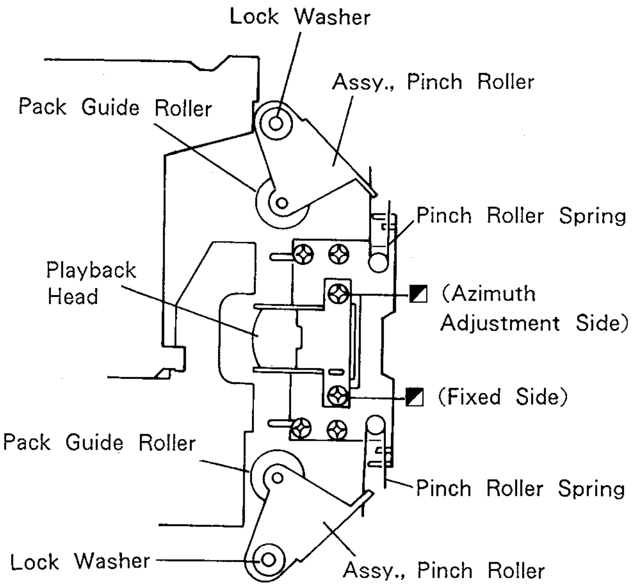
(1) Remove RF Frame Bracket.
(2) Remove two lock washers and two pinch roller springs and the pinch rollers can be removed as shown in Figure 4.
(3) Replace with good pinch rollers and clean them with alchol and assembly it using above steps in reverse order.
(4) After assembling, confirm the tape speed and wow-flutter with the test tape (MTT-111).

7. Replacement of Metal Switch P. C. Board

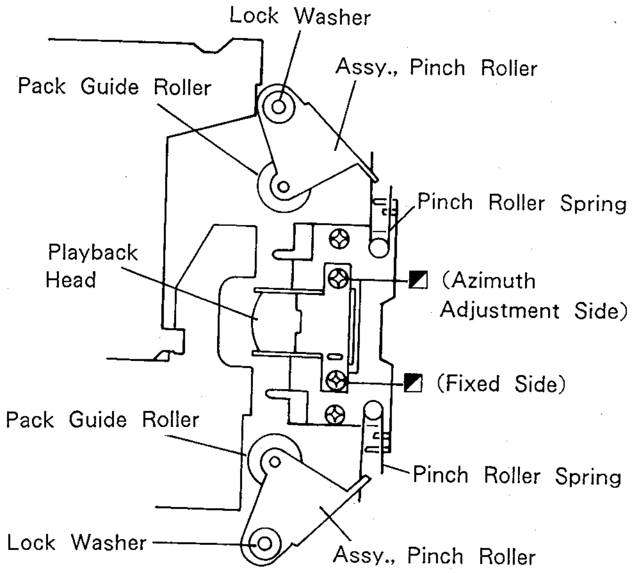
(1) Remove a screw marked "▲" in Figure 1.

Note : Since the wire parallel is apt to be damaged, handle it with sufficient care.

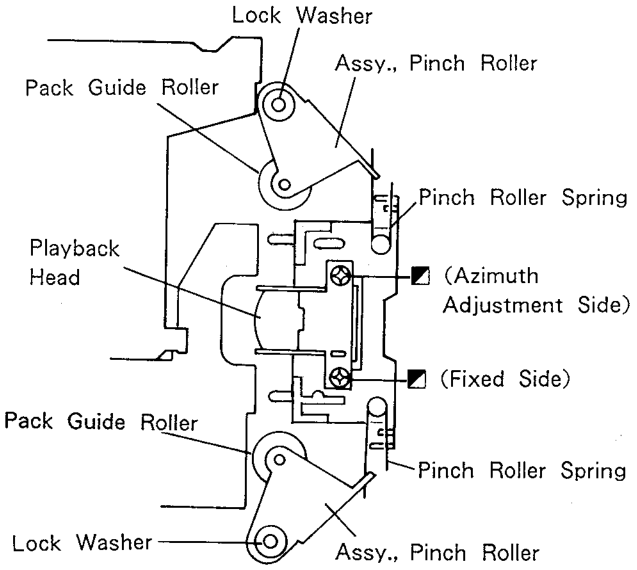
(2) Replace the board with a good one and assembly the board using above steps in reverse order.


Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◪ (Azimuth Adjustment Side)
◪ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

(GT75B Series model only) **Figure 4**


Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◪ (Azimuth Adjustment Side)
◪ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

(GT75L010/GT75L110 models only) **Figure 4**


Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◪ (Azimuth Adjustment Side)
◪ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

(GT75L220 model only) **Figure 4**

8. Replacement of GT Control P. C. Board and Program Switch P. C. Board

(GT75B Series model only)

(1) Remove solders as shown in Figure 9.
(2) Remove two screws marked "☐" as shown in Figure 9.
(3) Remove all connectors and wire leads from the P. C. Boards.
(4) After replacing with good ones, assemble them using disassembly instructions in reverse order.

Replacement of GT Control P. C. Board

(On GT75L010/GT75L110/GT75L220 models only)

(1) Remove solders as shown in Figure 9.
(2) Remove two screws marked "☐" as shown in Figure 9.
(3) Remove all connectors and wire leads from the P. C. Boards.
(4) After replacing with a good one, assemble the board using disassembly instructions in reverse order.

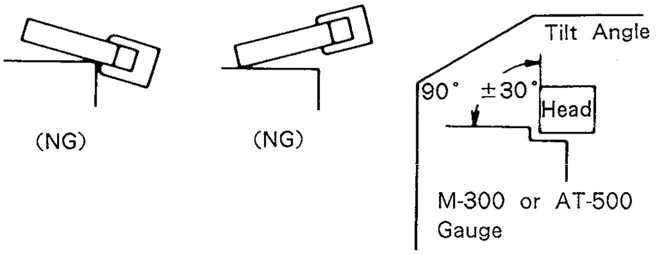

(NG)
(NG)
Tilt Angle
90° ±30°
Head
M-300 or AT-500 Gauge

Figure 5

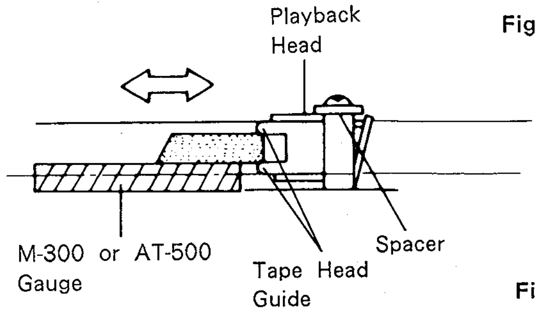
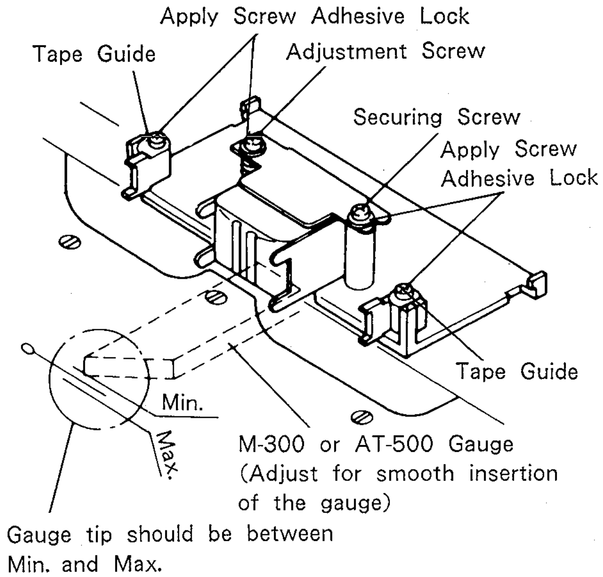
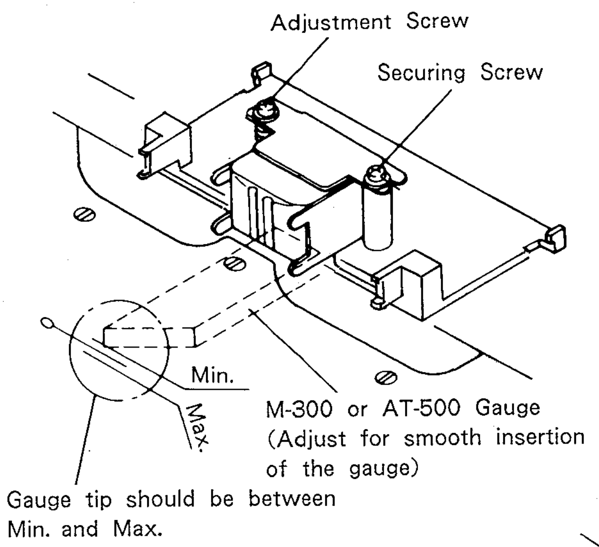

Playback Head
M-300 or AT-500 Gauge
Tape Head Guide
Spacer

Figure 6


Apply Screw Adhesive Lock
Tape Guide
Adjustment Screw
Securing Screw
Apply Screw Adhesive Lock
Tape Guide
Min.
Max.
M-300 or AT-500 Gauge
(Adjust for smooth insertion of the gauge)
Gauge tip should be between
Min. and Max.

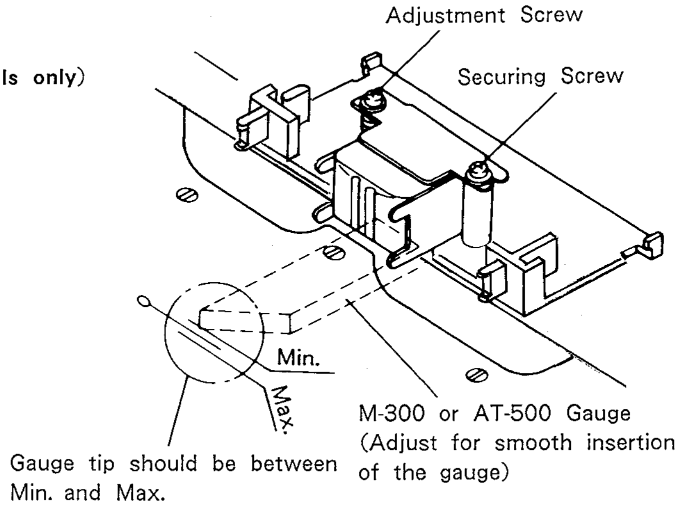
(GT75B Series model only)

Figure 7


Adjustment Screw
Securing Screw
Min.
Max.
M-300 or AT-500 Gauge
(Adjust for smooth insertion of the gauge)
Gauge tip should be between
Min. and Max.

(GT75L010/GT75L110 models only)

Figure 7


Adjustment Screw
Securing Screw
Min.
Max.
M-300 or AT-500 Gauge
(Adjust for smooth insertion of the gauge)
Gauge tip should be between
Min. and Max.

(GT75L220 model only)

9. Replacement of Mute Switch P. C. Board

(GT75B Series model only)

(1) Remove one screw marked "★" as shown in Figure 8.

(2) After replacing with a good one, assemble the P. C. Board using disassembly instructions in reverse order.

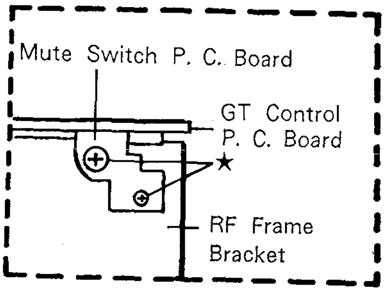
(On GT75B11A／GT75B11C／GT75B11D models only)

(1) Remove two screws marked "★" as shown in Figure A .

(2) After replacing with a good one, assemble the P. C. Boards using above steps in reverse order.

Figure Ⓐ

(GT75B11A／GT75B11C／GT75B11D models only)


Mute Switch P. C. Board
GT Control P. C. Board
★
RF Frame Bracket

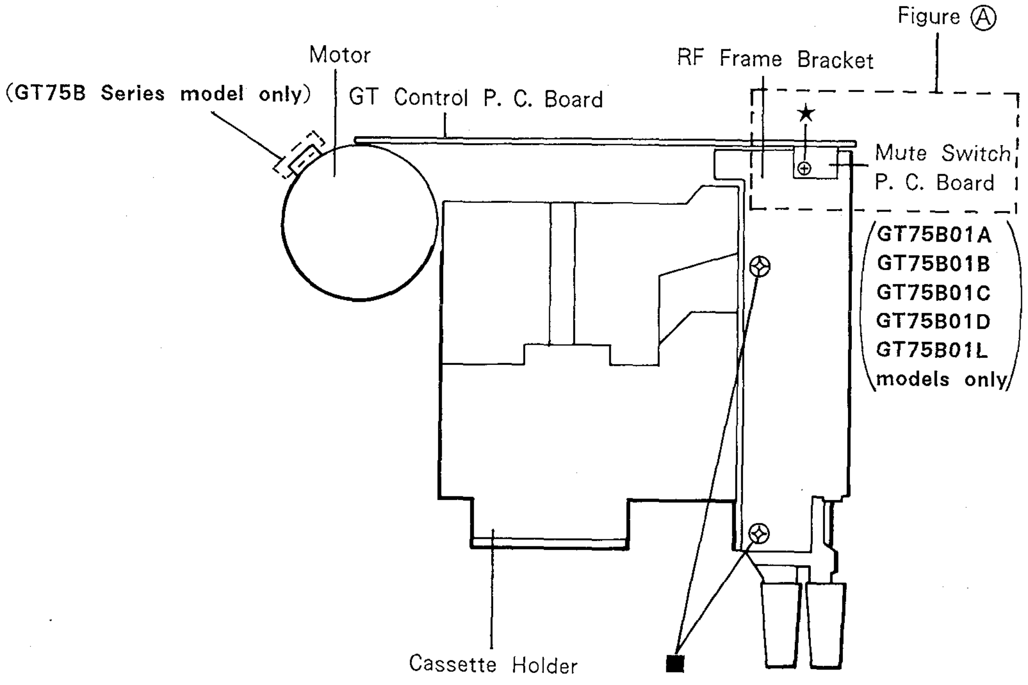
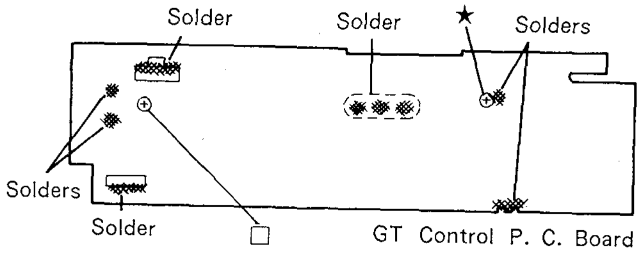


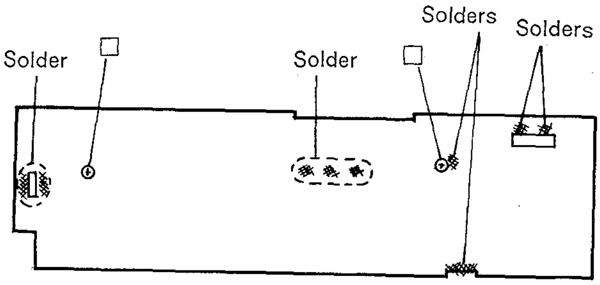
Figure Ⓐ
Motor
(GT75B Series model only)
GT Control P. C. Board
RF Frame Bracket
★
Mute Switch P. C. Board
GT75B01A
GT75B01B
GT75B01C
GT75B01D
GT75B01L
models only
Cassette Holder
■

Figure 8


Solder
Solder
★
Solders
Solders
Solder
□
GT Control P. C. Board

(GT75B Series model only)

Figure 9


Solder
□
Solder
□
Solders
Solders

(GT75L010／GT75L110／GT75L220 models only)

Figure 9

Parts List (1/3)

○ : For GT75B01A model only, ● : For GT75B01B model only,
□ : For GT75B11A model only, ■ : For GT75B11C model only, Others : Common.

Symbol No.		Index	Part No.	Description		
	201	5-C	43A63281F01	Roller, Plate Base		
	202	5-C	43A63282F01	Roller, Eject Arm		
	203	5-C	43A80430F01	Roller, Eject Arm (B)		
	204	5-B	41A80448F01	Spring, Turn Eject		
	205	5-C	41B80444F04	Spring		
	206	3-C	04A41345P15	Washer, Lock (M1.2)		
	207		04A41345P02	Washer, Lock (M1.7)		
	208	3-A	01A82275F03	Assy., Riv. Plate Base		
	209	4-B	45B82846F01	Slider		
	210	4-B	47A63278F01	Shaft, Slider		
	211	5-B	01A80457F01	Assy., Riv. Eject Arm		
	213	5-C	01A80983F01	Assy., Riv. Eject Lever		
	214	4-B	01A63494F01	Assy., Riv. Cassette Holder		
	216	4-E	01A80461F01	Assy., Riv. Reverse Frame		
	217	3-E	44B80378F01	Gear, Change		
	218	3-E	45A80366F01	Lever, Reverse Lock		
	219	3-E	45A80367F01	Lever, Reverse Act		
	220	3-E	41B80444F02	Spring		
	221	3-E	41B80444F03	Spring		
	222		04A41345P01	Washer, Lock (M1.2)		
	224		43A80431F01	Roller, Sub Head Base		
	225	2-C	41B80444F01	Spring		
	226	2-C	01A80454F01	Assy., Riv. Head Base Act		
	227	3-D	01A80458F01	Assy., Riv. RF Arm		
	228	4-B	07B80356F01	Bracket, RF Frame		
	231	3-B	01A84687F01	Assy., Riv. RF Link		
	232	3-A	45A80361F01	Lever, Mute		
□	233	2-C	84A84245F01	Mute Switch P. C. Board		
■	233	2-C	84A84245F01	Mute Switch P. C. Board		
○	233	2-D	84A82645F01	Mute Switch P. C. Board		

Symbol No.		Index	Part No.	Description		
●	233	2-D	84A82645F01	Mute Switch P. C. Board		
	234	3-C	41A80446F01	Spring, RF Lever		
	235	4-B	41B80444F06	Spring		
	236		03S56479F04	Screw, Pan (M2 × 7)		
	237	3-A	01A80459F01	Assy., Riv. Program Push Lever		
	238	3-C	43A80427F01	Roller, Head Base (C)		
	239		03S56479F07	Screw, Countersunk (M2.6 × 3)		
	241	2-A	84T80469F01	Head P. C. Board		
	242	3-B	07B80396F01	Frame, Head		
	243	2-B	47A80493F01	Shaft, Head Frame		
	244	2-B	43A80492F01	Roller, Head Frame		
	245		43B63198F01	Tape, Guide		
	246		43A80428F01	Roller, Head		
	247	3-B	41A63286F03	Spring, Pinch Roller		
	248	2-B	41A63286F04	Spring, Pinch Roller		
	249		41A63290F01	Spring, Tape Guide		
	250		41A80445F01	Spring, Head		
	251		03S40019G03	Screw, F-Locks (M2 × 4)		
	252	3-F	45A80386F01	Lever, Swing		
	253		49A64626F01	Reel, Ring		
	254		49A64627F01	Reel, Cap		
	255		41A64628F01	Spring, Reel		
	256	4-G	41A80450F01	Spring, Reel Clutch		
	257	4-F	03A80490F01	Screw, Flat (M1.7 × 1.5)		
	258	3-F	04S40075G23	Washer, Polyslider (M5.2)		
	259	4-G	01A80462F01	Assy., Riv. Bracket Reel		
	260	3-F	01A80463F01	Assy., Riv. Sub Reel		
	261	4-E	44A80392F01	Gear, Clutch		
	262	4-F	45A80393F01	Lever, Clutch		
	263	4-F	43A80394F01	Bush, Clutch		
	264	4-F	41A80395F01	Spring, Clutch		
	265	4-G	01V81200F63	Assy., Flywheel Bracket		
	266	2-B	45A80364F01	Lever, RF Lock		
	267	2-B	41B80444F05	Spring		
	268	2-B	01A80460F01	Assy., Riv. Play Solenoid		

NOTE : The parts without part numbers are not supplied.

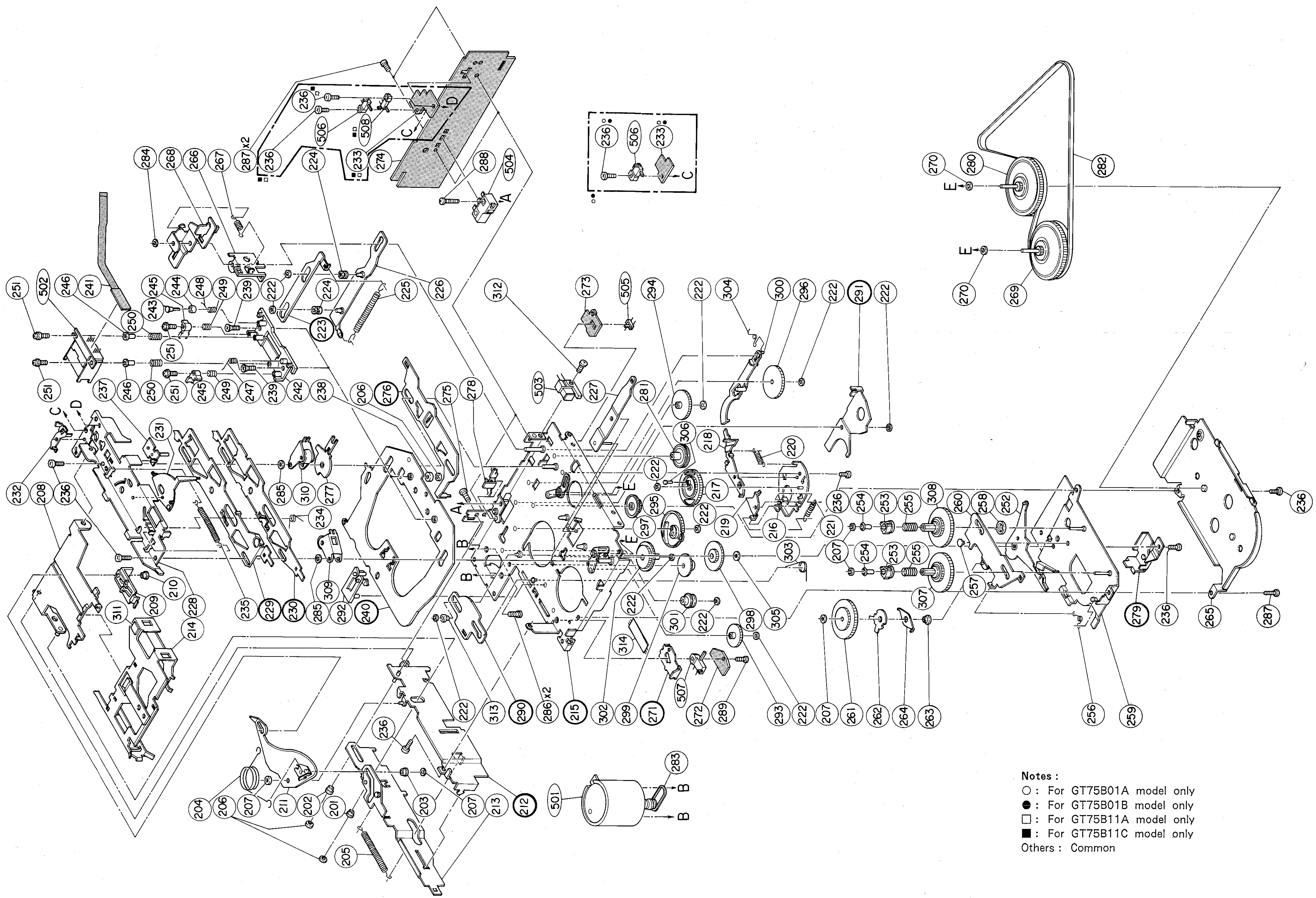
○ : For GT75B01A model only, ● : For GT75B01B model only, ☐ : For GT75B11A model only,
■ : For GT75B11C model only, Others : Common.

Symbol No.		Index	Part No.	Description		
	269	2-F	01T63210F05	Assy., Flywheel		
	270		04S40075G05	Washer, Polyslider (M2.1)		
	272	4-E	84A82646F01	Metal Switch P. C. Board		
	273	2-D	84A80432F01	Program Switch P. C. Board		
☐	274	2-C	01V84300F56	Assy., GT Control P. C. Board		
○	274	2-C	01V81800F72	Assy., GT Control P. C. Board		
●	274	2-C	01V91700F39	Assy., GT Control P. C. Board		
■	274	2-C	01V93300F91	Assy., GT Control P. C. Board		
	275	3-C	03S44205G42	Screw, Pan (M2.6 × 4)		
	277	3-C	45A80373F01	Lever, Program		
	278	3-C	45A80375F01	Lever, Switch		
	280	2-F	01T63210F06	Assy., Flywheel		
	281	3-D	49A83022F01	Pully, Idler		
	282	2-G	42A40969F01	Belt		
	283	5-D	42A80397F01	Belt		
	284	2-B	04A41345P14	Washer, Lock (M2.1)		
	285		04A41345P25	Washer, Lock (M3.1)		
	286	4-D	03D40014G12	Screw, W/Washer (M2.6 × 4)		
	287		03S44205G07	Screw, Pan (M2.6 × 5)		
	288	2-C	03S68259F06	Screw, Bind (M2.3 × 8)		
	289	4-E	03S68259F03	Screw, Pan (M2 × 7)		
	292	4-C	45A80387F01	Lever, Reel Brake		
	293	4-E	44A63196F01	Gear, Take Up		
	294	2-D	44A80382F01	Gear, Take Up		
	295	3-D	44B80379F01	Gear, Pause		
	296	2-E	44A80380F01	Gear, Reverse Act		
	297	4-D	44A80381F01	Gear, Reverse Idler		
	298	4-E	44A80383F01	Gear, Pause Idler		
	299	4-D	44A80385F01	Gear, Motor Idler		
	300	2-E	45B80388F01	Lever, Trigger		
	301	4-D	44A80384F01	Gear, Pulley		
	302	4-D	44A63197F01	Gear, RF Idler		
	303	4-E	41A80447F01	Spring, Pack		
	304	2-E	41A80449F01	Spring, Program Trigger		
	305	4-E	04A41345P04	Washer, Lock (M2.6)		

Symbol No.		Index	Part No.	Description		
	306	3-E	47A80423F01	Shaft, Change Gear		
	307	4-F	01T80390F01	Assy., Reel		
	308	3-F	01T80390F02	Assy., Reel		
	309	4-C	01T80433F01	Assy., Pinch Roller		
	310	3-B	01T80433F02	Assy., Pinch Roller		
	311	4-A	43A90918F01	Spacer, Polyslider		
	312	2-D	03S68259F09	Screw, Pan (M2 × 6)		
	313	4-C	43A90769F01	Roller, Eject Com		
	314	4-D	30T84002F01	Wire, Parallel 2P		
				Miscellaneous		
	501	5-D	01V81200F64	Assy., Motor		
○	502	2-A	88T50977F01	Head, Playback		
●	502	2-A	88T50977F01	Head, Playback		
☐	502	2-A	88T74130F01	Head, Playback		
■	502	2-A	88T74130F01	Head, Playback		
	503	3-D	01T80451F01	Assy., Keep Solenoid		
	504	2-D	40T52216F01	Switch, Micro		
	505	2-D	40T63432F01	Switch, Slide		
	506		40T71025F01	Switch, Detector		
	507	4-E	40T71025F03	Switch, Detector		
☐	508	2-C	40T71025F03	Switch, Detector		
■	508	2-C	40T71025F03	Switch, Detector		

NOTE : The parts without part numbers are not supplied.

Exploded View (1/3)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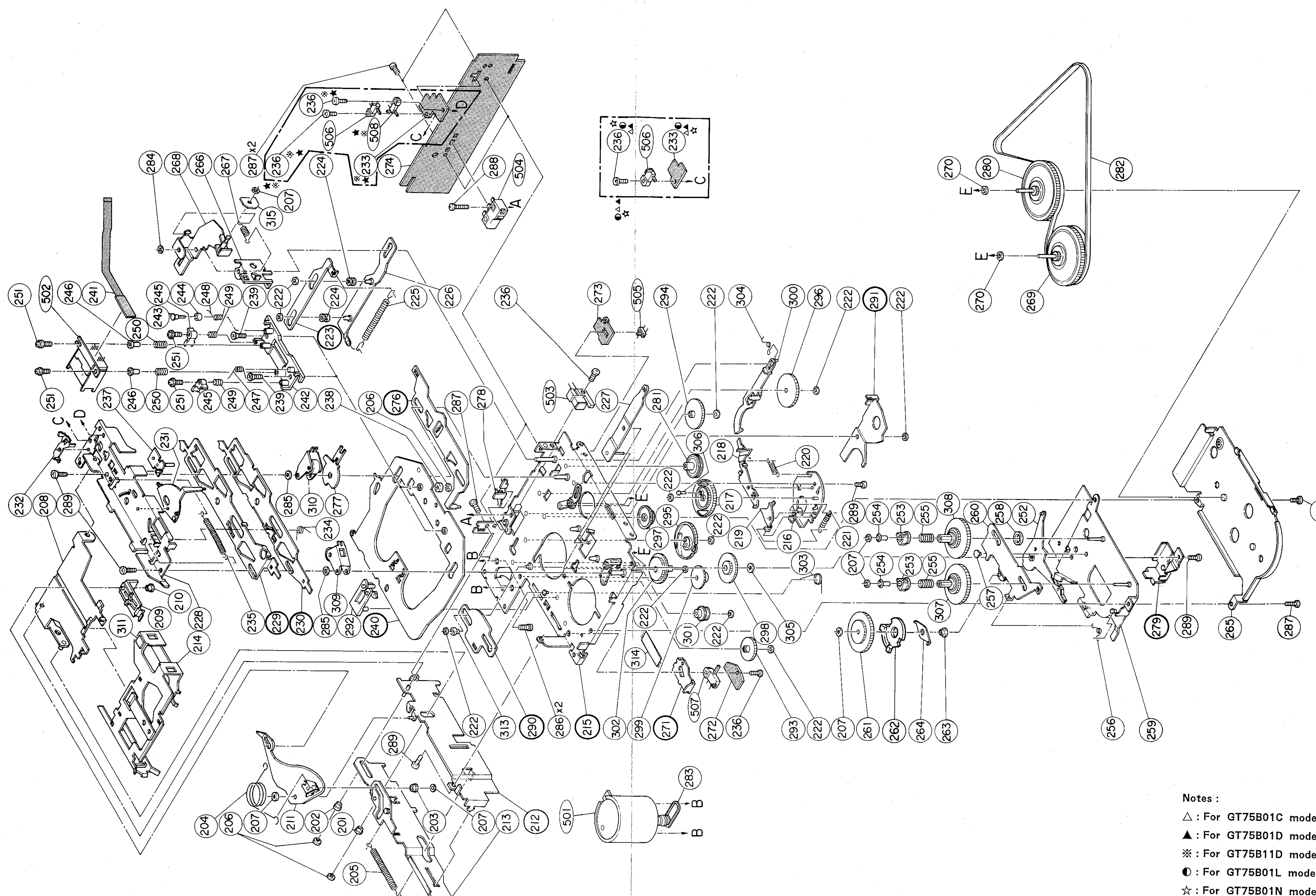
Notes :
○ : For GT75B01A model only
● : For GT75B01B model only
□ : For GT75B11A model only
■ : For GT75B11C model only
Others : Common

Exploded View (2/3)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Notes :

△ : For GT75B01C model only

▲ : For GT75B01D model only

※ : For GT75B11D model only

◐ : For GT75B01L model only

☆ : For GT75B01N model only

★ : For GT75B11N model only

Others : Common

Parts List (2/3)

△ : For GT75B01C model only, ▲ : For GT75B01D model only,
※ : For GT75B11D model only, ◐ : For GT75B01L model only,
☆ : For GT75B01N model only, ★ : For GT75B11N model only, Others : Common.

Symbol No.	Index	Part No.	Description		
201	5-C	43A63281F01	Roller, Plate Base		
202	5-C	43A63282F01	Roller, Eject Arm		
203	5-C	43A80430F01	Roller, Eject Arm (B)		
204	5-B	41A80448F01	Spring, Turn Eject		
205	5-C	41B80444F04	Spring		
206		04A41345P15	Washer, Lock (M1.2)		
207		04A41345P02	Washer, Lock (M1.7)		
208	3-A	01A82275F03	Assy., Riv. Plate Base		
209	4-B	45B10376W01	Slider		
210	4-B	47A63278F01	Shaft, Slider		
211	5-B	01A80457F01	Assy., Riv. Eject Arm		
213	5-D	01A80983F01	Assy., Riv. Eject Lever		
214	4-B	01A63494F01	Assy., Riv. Cassette Holder		
216	4-E	01A80461F01	Assy., Riv. Reverse Frame		
217	3-E	44B80378F01	Gear, Change		
218	3-E	45A80366F01	Lever, Reverse Lock		
219	4-E	45A80367F01	Lever, Reverse Act		
220	3-F	41B80444F02	Spring		
221	4-E	41B80444F03	Spring		
222		04A41345P01	Washer, Lock (M1.2)		
224		43A80431F01	Roller, Sub Head Base		
225	2-C	41B80444F01	Spring		
226	2-C	01A80454F01	Assy., Riv. Head Base Act		
227	3-D	01A80458F01	Assy., Riv. RF Arm		
228	4-B	07B80356F01	Bracket, RF Frame		
231	3-B	01A84687F01	Assy., Riv. RF Link		
232	3-A	45A80361F01	Lever, Mute		
※ 233	2-C	84A84245F01	Mute Switch P. C. Board		
▲ 233	2-D	84A82645F01	Mute Switch P. C. Board		
△ 233	2-D	84A82645F01	Mute Switch P. C. Board		
◐ 233	2-D	84A82645F01	Mute Switch P. C. Board		
☆ 233	2-D	84A82645F01	Mute Switch P. C. Board		
★ 233	2-C	84A84245F01	Mute Switch P. C. Board		
234	3-C	41A80446F01	Spring, RF Lever		
235	4-B	41B80444F06	Spring		
236		03S10042W02	Screw, Pan (M2 × 7)		
237	3-A	01A80459F01	Assy., Riv. Program Push Lever		
238	3-C	43A80427F01	Roller, Head Base (C)		
239		03S56479F07	Screw, Countersunk (M2.6 × 3)		
241	2-A	84T10306W01	Head P. C. Board		
242	3-B	07B80396F01	Frame, Head		
243	2-B	47A80493F01	Shaft, Head Frame		
244	2-B	43A80492F01	Roller, Head Frame		
245		43B63198F01	Tape, Guide		
246		43A80428F01	Roller, Head		
247	3-B	41A63286F03	Spring, Pinch Roller		
248	2-B	41A63286F04	Spring, Pinch Roller		
249		41A63290F01	Spring, Tape Guide		
250		41A80445F01	Spring, Head		
251		03S40019G03	Screw, F-Locks (M2 × 4)		
252	3-F	45A80386F01	Lever, Swing		
253		49A64626F01	Reel, Ring		
254		49A64627F01	Reel, Cap		
255		41A64628F01	Spring, Reel		
256	4-G	41A80450F01	Spring, Reel Clutch		
257	4-F	03A80490F01	Screw, Flat (M1.7 × 1.5)		
258	3-F	04S40075G23	Washer, Polyslider (M5.2)		
259	4-G	01A80462F01	Assy., Riv. Bracket Reel		
260	3-F	01A80463F01	Assy., Riv. Sub Reel		
261	4-E	44A80392F01	Gear, Clutch		
262	5-F	45A10318W01	Lever, Clutch		
263	4-F	43A80394F01	Bush, Clutch		
264	4-F	41A80395F01	Spring, Clutch		
265	4-G	01V81200F63	Assy., Flywheel Bracket		
266	2-B	45A80364F01	Lever, RF Lock		
267	2-B	41B80444F05	Spring		
268	2-B	01A94367F01	Assy., Riv. Play Solenoid		
269	2-F	01T63210F05	Assy., Flywheel		

NOTE : The parts without part numbers are not supplied.

△ : For GT75B01C model only, ▲ : For GT75B01D model only, ※ : For GT75B11D model only,
◐ : For GT75B01L model only, ☆ : For GT75B01N model only, ★ : For GT75B11N model only,
Others : Common.

Symbol No.	Index	Part No.	Description		
270		04S40075G05	Washer, Polyslider (M2.1)		
272	4-E	84A82646F01	Metal Switch P. C. Board		
273	2-D	84A80432F01	Program Switch P. C. Board		
△ 274	2-C	01V11300W54	Assy., GT Control P. C. Board		
☆ 274	2-C	01V14300W94	Assy., GT Control P. C. Board		
▲ 274	2-C	01V11400W38	Assy., GT Control P. C. Board		
※ 274	2-C	01V11300W53	Assy., GT Control P. C. Board		
◐ 274	2-C	01V14300W94	Assy., GT Control P. C. Board		
★ 274	2-C	01V11300W53	Assy., GT Control P. C. Board		
277	3-C	45A80373F01	Lever, Program		
278	3-C	45A80375F01	Lever, Switch		
280	2-F	01T63210F06	Assy., Flywheel		
281	3-D	49A83022F01	Pully, Idler		
282	2-G	42A40969F01	Belt		
283	5-E	42A80397F01	Belt		
284	2-B	04A41345P14	Washer, Lock (M2.1)		
285		04A41345P25	Washer, Lock (M3.1)		
286	4-D	03D40014G12	Screw, W/Washer (M2.6 × 4)		
287		03S44205G07	Screw, Pan (M2.6 × 5)		
288	2-C	03S68259F06	Screw, Bind (M2.3 × 8)		
289		03S10042W11	Screw, Pan (M1.7 × 2.5)		
292	4-C	45A80387F01	Lever, Reel Brake		
293	4-E	44A63196F01	Gear, Take Up		
294	2-D	44A80382F01	Gear, Take Up		
295	3-D	44B80379F01	Gear, Pause		
296	2-E	44A80380F01	Gear, Reverse Act		
297	4-D	44A80381F01	Gear, Reverse Idler		
298	4-E	44A80383F01	Gear, Pause Idler		
299	4-D	44A80385F01	Gear, Motor Idler		
300	2-E	45B80388F01	Lever, Trigger		
301	4-E	44A80384F01	Gear, Pulley		
302	4-D	44A63197F01	Gear, RF Idler		
303	4-E	41A80447F01	Spring, Pack		
304	2-E	41A80449F01	Spring, Program Trigger		
305	4-E	04A41345P04	Washer, Lock (M2.6)		

Symbol No.	Index	Part No.	Description		
306	3-E	47A80423F01	Shaft, Change Gear		
307	4-F	01T80390F01	Assy., Reel		
308	3-F	01T80390F02	Assy., Reel		
309	4-C	01T80433F01	Assy., Pinch Roller		
310	3-C	01T80433F02	Assy., Pinch Roller		
311	4-B	43A90918F01	Spacer, Polyslider		
313	4-D	43A90769F01	Roller, Eject Com		
314	4-D	30T84002F01	Wire, Parallel 2P		
315	2-B	76T95077F01	1Chip		
316		03S44205G42	Screw, Pan (M2.6 × 4)		
Miscellaneous					
△ 501	5-D	01V11700W05	Assy., Motor		
▲ 501	5-D	01V93800F53	Assy., Motor		
※ 501	5-D	01V11700W05	Assy., Motor		
◐ 501	5-D	01V11700W05	Assy., Motor		
☆ 501	5-D	01V11700W05	Assy., Motor		
★ 501	5-D	01V11700W05	Assy., Motor		
△ 502	2-A	88T50977F02	Head, Playback		
▲ 502	2-A	88T50977F02	Head, Playback		
※ 502	2-A	88T74130F02	Head, Playback		
◐ 502	2-A	88T50977F02	Head, Playback		
☆ 502	2-A	88T50997F02	Head, Playback		
★ 502	2-A	88T74130F02	Head, Playback		
503	3-D	01T80451F01	Assy., Keep Solenoid		
504	1-D	40T52216F01	Switch, Micro		
505	2-D	40T63432F01	Switch, Slide		
506		40T71025F01	Switch, Detect		
507	4-E	40T71025F03	Switch, Detect		
※ 508	1-C	40T71025F03	Switch, Detect		
★ 508	1-C	40T71025F03	Switch, Detect		

NOTE : The parts without part numbers are not supplied.

Parts List (3/3)

◓ : For GT75L020 model only, ⬖ : For GT75L120 model only,
◨ : For GT75L02N model only, ◭ : For GT75L12N model only,
◆ : For GT75L220 model only, Others : Common.

Symbol No.	Index	Part No.	Description		
201	5-C	43A63281F01	Roller, Plate Base		
203	4-C	43A12105W01	Roller, Eject Arm (B)		
204	5-B	41A12411W01	Spring, Turn Eject		
205	5-C	41B80444F04	Spring		
206	5-B	04A41345P15	Washer, Lock (M1.2)		
207		04A41345P02	Washer, Lock (M1.7)		
208	3-A	01A82275F03	Assy., Rivet Plate Base		
209	4-B	45B10376W01	Slider		
210		47A63278F01	Shaft, Slider		
211	4-C	01A12405W01	Assy., Rivet Eject Arm		
213		43A12087W01	Roller, Pack Guide		
214		03S40011G47	Screw, Pan (M2 × 7)		
216	4-E	01A12378W01	Assy., Rivet Reverse		
217	3-E	44B80378F01	Gear, Change		
218	3-E	45A80366F01	Lever, Reverse Lock		
219	3-E	45A80367F01	Lever, Reverse ACT		
220	3-E	41B50444F02	Spring		
221	3-E	41B50444F03	Spring		
222		04A41345P01	Washer, Lock (M1.2)		
224	4-E	41A80447F01	Spring, Pack		
225	2-C	41B80444F01	Spring		
226	2-C	01A12406W01	Assy., Rivet Head Base ACT		
227	3-D	01A80458F02	Assy., Rivet RF Arm		
228	4-B	07B80356F02	Bracket RF Frame		
231	4-B	01A84687F01	Assy., Rivet Link		
232	2-B	76T95077F01	Chip		
233	5-D	45B12076W01	Lever, Eject		
234	3-C	41A80446F01	Spring, RF Lever		
235	4-B	41B80444F06	Spring		
236	4-E	44A63196F01	Gear, Take Up		
237	3-A	01A80459F01	Assy., Rivet Program Push		
238	4-B	07C63151F02	Holder, Cassette		
241	2-A	84T15796W01	Head P. C. Board		
242	1-B	07B12806W01	Frame, Head		
243	2-B	47A80493F01	Shaft, Head Frame		
244	2-B	43A80492F01	Roller, Head Frame		
247	2-B	41A63286F03	Spring, Pinch Roller		
248	3-B	41A63286F04	Spring, Pinch Roller		
249	2-E	44A80382F01	Gear, Take Up		
250	1-B	41A13824W01	Spring, Head		
251	2-A	03S40019G03	Screw, F-Lock (M2 × 4)		
252	3-F	45A80386F01	Lever, Swing		
253	2-B	45B12084W01	Lever, Play Solenoid		
254	4-E	30T84002F01	Wire, Metal Switch		
255	4-G	01V16100W82	Assy., Flywheel Bracket		
256		41A80450F01	Spring, Reel Clutch		
257	3-H	03A63557F02	Screw, Pan (M1.7 × 2.5)		
◓ 258	2-C	01V14500W06	Assy., GT Control P. C. Board		
◨ 258	2-C	01V14500W06	Assy., GT Control P. C. Board		
⬖ 258	2-C	01V14500W48	Assy., GT Control P. C. Board		
◆ 258	2-C	01V16800W37	Assy., GT Control P. C. Board		
◭ 258	2-C	01V14500W48	Assy., GT Control P. C. Board		
259		01T94245F01	Assy., Reel		
260	4-G	01A12403W01	Assy., Rivet Bracket Reel		
261	4-E	04A41345P04	Washer, Lock (M2.6)		
262	4-E	44A80392F01	Gear, Clutch		
263	4-F	45A10318W01	Lever, Clutch		
264	4-F	43A80394F01	Bush, Clutch		
265	4-F	41A80395F01	Spring, Clutch		
266	2-E	41A80449F01	Spring, Program Trigger		
267	4-D	44A63197F01	Gear, RF Idler		
268	2-B	45A80364F01	Lever, RF Lock		
269	2-B	41B80444F05	Spring		
270	2-E	45B80388F01	Lever, Trigger		
271		01T63210F05	Assy., Flywheel		
272		04S40075G05	Washer Polyslider (M2.1)		
274	4-E	84A82646F01	Metal Switch P. C. Board		
275	4-E	44A12088W01	Gear, Motor Idler		
276	4-E	44A80383F01	Gear, Pause Idler		
277	3-D	44A80381F01	Gear, Reverse Idler		

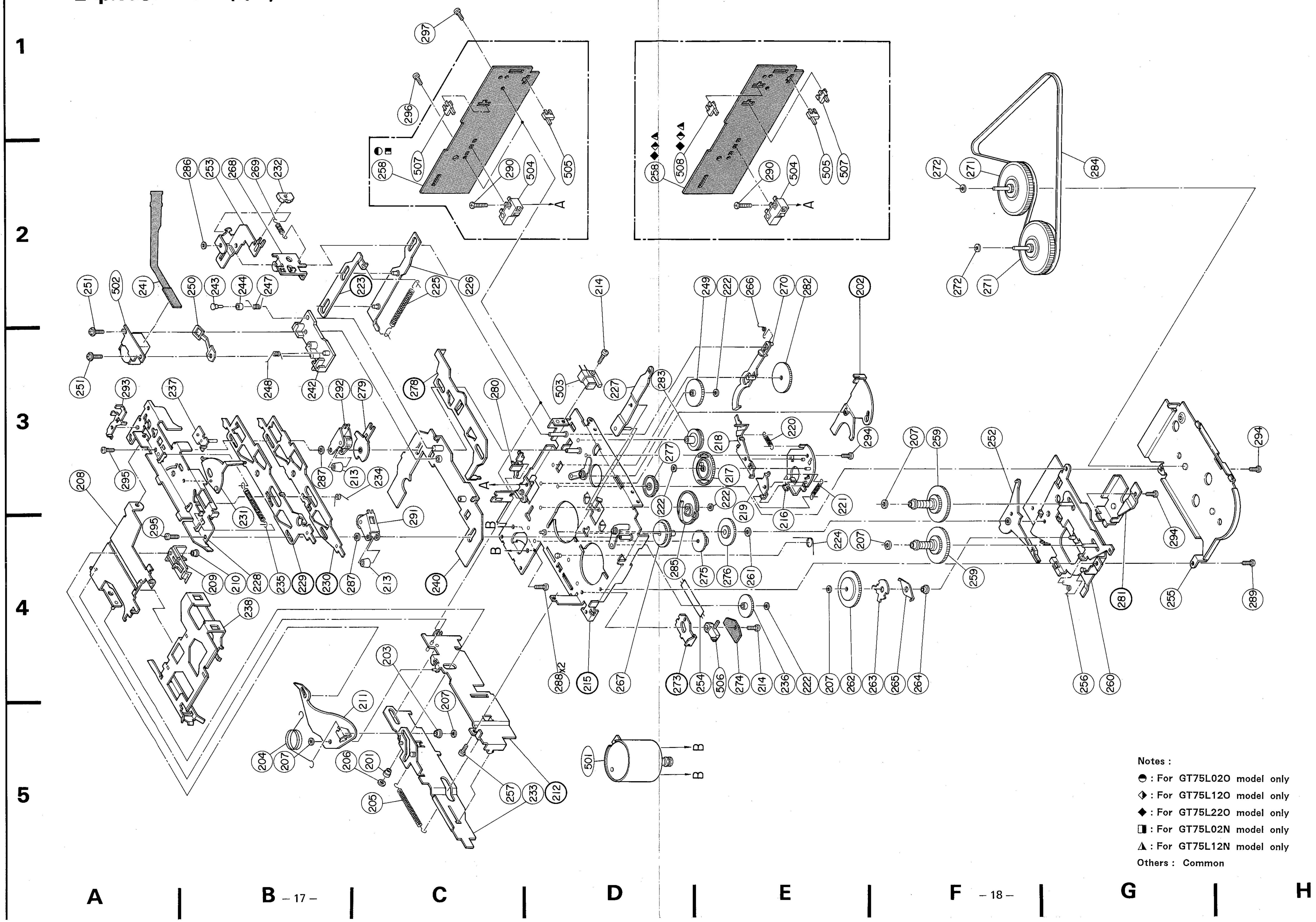
NOTE : The parts without part numbers are not supplied.

◓ : For GT75L020 model only, ⬗ : For GT75L120 model only, ◨ : For GT75L02N model only,
▲ : For GT75L12N model only, ◆ : For GT75L220 model only, Others : Common.

Symbol No.		Index	Part No.	Description		
	279	3-C	45A80373F01	Lever, Program		
	280	3-C	45A80375F01	Lever, Switch		
	282	2-E	44A80380F01	Gear, Reverse ACT		
⬗	283	3-D	49A94719F01	Pully, Idler		
◓	283	3-D	49A94719F01	Pully, Idler		
◨	283	3-D	49A83022F01	Pully, Idler		
▲	283	3-D	49A83022F01	Pully, Idler		
◆	283	3-D	49A83022F01	Pulley, Idler		
	284		42A40969F01	Belt		
	285	4-D	44B80379F01	Gear, Pause		
	286	2-B	04A41345P14	Washer, Lock (M2.1)		
	287		04A41345P25	Washer, Lock (M3.1)		
	288	4-D	03D40014G67	Screw, W/Washer (M2.6 × 3.5)		
	289	2-B	03S44205G30	Screw, Pan (M2.6 × 7)		
	290		03S68259F06	Screw, Bind (M2.3 × 8)		
	291	4-C	01T15776W01	Assy., Pinch Roller		
	292	3-B	01T15776W02	Assy., Pinch Roller		
	293	3-B	45A12083W01	Lever, Switch Mute		
	294		03S43997P64	Screw, Pan (M1.7 × 3)		
	295		03S56479F27	Screw, Pan (M1.7 × 3)		
	296	1-C	03S44205G48	Screw, Pan (M2.6 × 5)		
⬗	297		03S44205G30	Screw, Pan (M2.6 × 4)		
◓	297		03S44205G30	Screw, Pan (M2.6 × 4)		
◨	297		03S44205G30	Screw, Pan (M2.6 × 4)		
▲	297		03S44205G30	Screw, Pan (M2.6 × 4)		
◆	297		03S44205G48	Screw, Pan (M2.6 × 5)		
Miscellaneous						
	501	5-D	01V14500W41	Assy., Motor		
◓	502	2-A	88T15795W01	Head, Playback		
⬗	502	2-A	88T16375W01	Head, Playback		
◨	502	2-A	88T15795W01	Head, Playback		
▲	502	2-A	88T16375W01	Head, Playback		
◆	502	2-A	88T16153W01	Head, Playback		
	503		01T80451F01	Assy., Keep Solenoid		
	504	2-E	40T52216F01	Switch, Micro		
	505	2-E	40T71025F03	Switch, Detector		
	506		40T15222W01	Switch, Detector		
	507		40T15222W01	Switch, Detector		
◆	508	2-D	40T15222W01	Switch, Detector		
⬗	508	2-D	40T15222W01	Switch, Detector		
▲	508	2-D	40T15222W01	Switch, Detector		

NOTE : The parts without part numbers are not supplied.

Exploded View (3/3)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Notes :

◓ : For GT75L02O model only

⬗ : For GT75L12O model only

◆ : For GT75L22O model only

◨ : For GT75L02N model only

◭ : For GT75L12N model only

Others : Common